

32BDL3010Q
V1.00



www.philips.com/welcome

User Manual (English)

PHILIPS

SignageSolutions

Safety Instructions

Warnings and Precautions

KNOW THESE SAFETY SYMBOLS



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

CAUTION: FCC/CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

CAUTION: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.

TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The Socket-outlet should be installed near the apparatus and be easily accessible.



Read and follow these instructions when connecting and using your Public Information 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.
- If turning off the display by detaching the power cable, wait for 6 seconds before re-attaching the power cable 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.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The batteries (batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.
16. An all-pole MAINS SWITCH is used as the disconnect device, the location on the apparatus and the function of the switch shall be described, and the switch shall remain readily operable



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

WARNING: Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: The batteries (batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

WARNING: The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times.



WARNING: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

WARNING: The Class I apparatus shall be connected to a mains socket outlet with a protective earthing connection.

WARNING

Never place a television set in an unstable location. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.

If your existing television set is being retained and relocated, the same considerations as above should be applied.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CAUTION: Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphone and headphone output voltage and the sound pressure level. Therefore, to protect your hearing, adjust the equalizer to an appropriate level.

For UL/CUL application: For use only with UL Listed Wall Mount Bracket with minimum weight/load: 5.2 Kg

For CB application: Unit without base weight: 5.2 Kg. The equipment and its associated mounting means still remain secure during the test. (Used wall mounting kit: 200x200/100x100 mm distance by using M4 screws of 10 mm long plus the thickness of the mounting bracket.

IMPORTANT INFORMATION

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television or its controls.

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) and 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.

Warning:

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

ESD Warnings

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

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

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 użytkownika zawartymi w PN-93/T-42107 i PN-89/E-06251.

Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kolka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłóceniewego 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 nadepnąć 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.

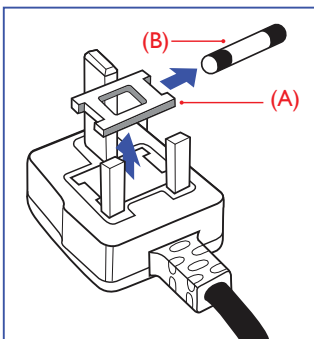
Electric, Magnetic and Electromagnetic Fields ("EMF")

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:

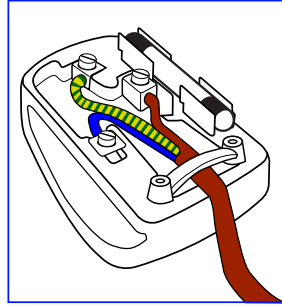
1. Remove fuse cover and fuse.
2. Fit new fuse which should be a BS 1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

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 TILGÆNGELIGE.

Paikka/Ilmankierto

VAROITUS:

SIIJOITA 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.

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.

End of Life Directives-Recycling



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

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

Restriction on Hazardous Substances statement (India)

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

E-Waste Declaration for India



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

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

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

Batteries



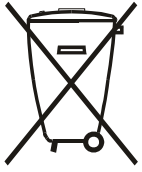
For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation.

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

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

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

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



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

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

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1. Unpacking and Installation

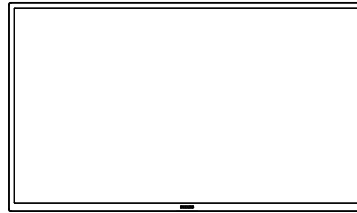
1.1. Unpacking

- This product is packed in a carton, together with the standard accessories.
- Any other optional accessories will be packed separately.
- Due to the size and weight of this display it is recommended for two people to move it.
- 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:

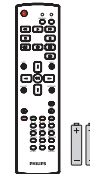
- LCD display
- Quick start guide
- Remote control with AAA batteries
- Power cord
- RS232 cable
- RS232 daisy chain cable
- IR sensor cable
- USB cover and screw x1



LCD display



Quick start guide

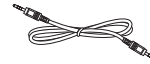


Remote Control and AAA Batteries

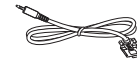
* The supplied power cord varies depending on destination.



Power Cord



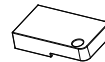
RS232 Daisy Chain Cable



RS232 Cable



IR Sensor Cable



USB Cover



Screw

* Items may differ in different locations

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

NOTES:

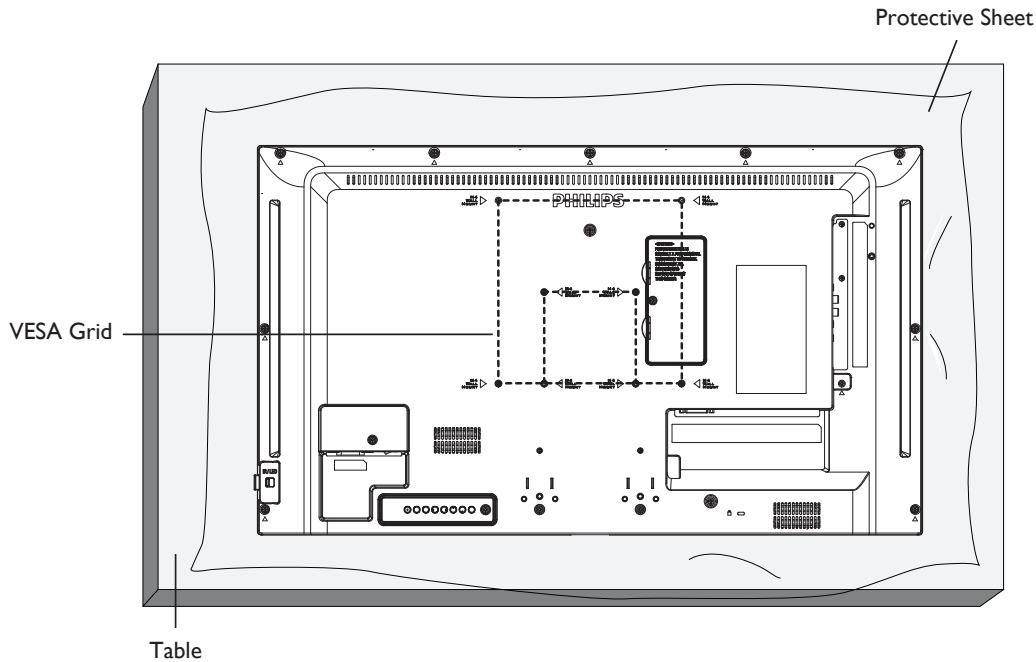
- For all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country (Type H05W-F, 2G or 3G, 0.75 or 1 mm² should be used).
- Keep the packaging materials appropriately after unpacking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

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



1. Spread a protective sheet on a flat surface, which is wrapped around the display when it was packed, beneath the screen surface to facilitate your operation without scratching the screen.
2. Ensure you have all accessories necessary 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 M4 mounting screws (with a length 10 mm longer than the thickness of the mounting bracket) and tighten them securely
5. Weight of the unit without base = 5.2 kg. The equipment and its associated mounting facilities still remain secure during the test. Use only the UL listed Wall Mount Bracket with a minimum weight/load of 5.2 kg.
6. Portrait orientation is not allowed.

1.4.1. VESA Grid

32BDL3010Q	100(H) × 100(V) mm
	200(H) × 200(V) mm

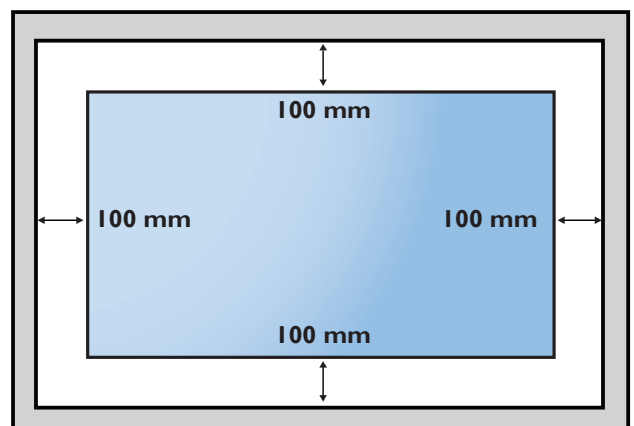
Caution:

To prevent the display from falling:

- For wall or ceiling installation, 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.

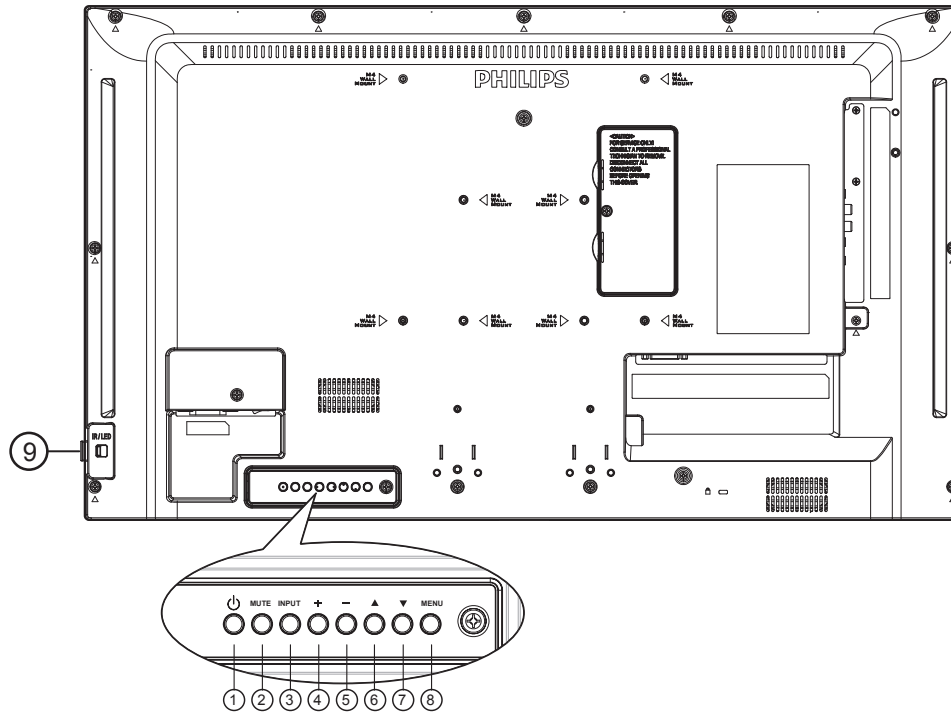
Ventilation Requirements for enclosure locating

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



2. Parts and Functions

2.1. Control Panel



① [⏻] button

Turn the display On or turn the display to standby mode.

② [MUTE] button

Mute the sound or reactivate sound.

③ [INPUT] button

Select an input source.

④ [⏏] button

- Increase the audio output level
- Enter into the submenu while OSD menu is on

⑤ [⏏] button

- Decrease the audio output level
- Back to previous menu while OSD menu is on

⑥ [▲] button

- Move the selected item one level up while the OSD menu is On
- Increase the adjustment.

⑦ [▼] button

- Move the selected item one level down while the OSD menu is On.
- Decrease the adjustment.

⑧ [MENU] button

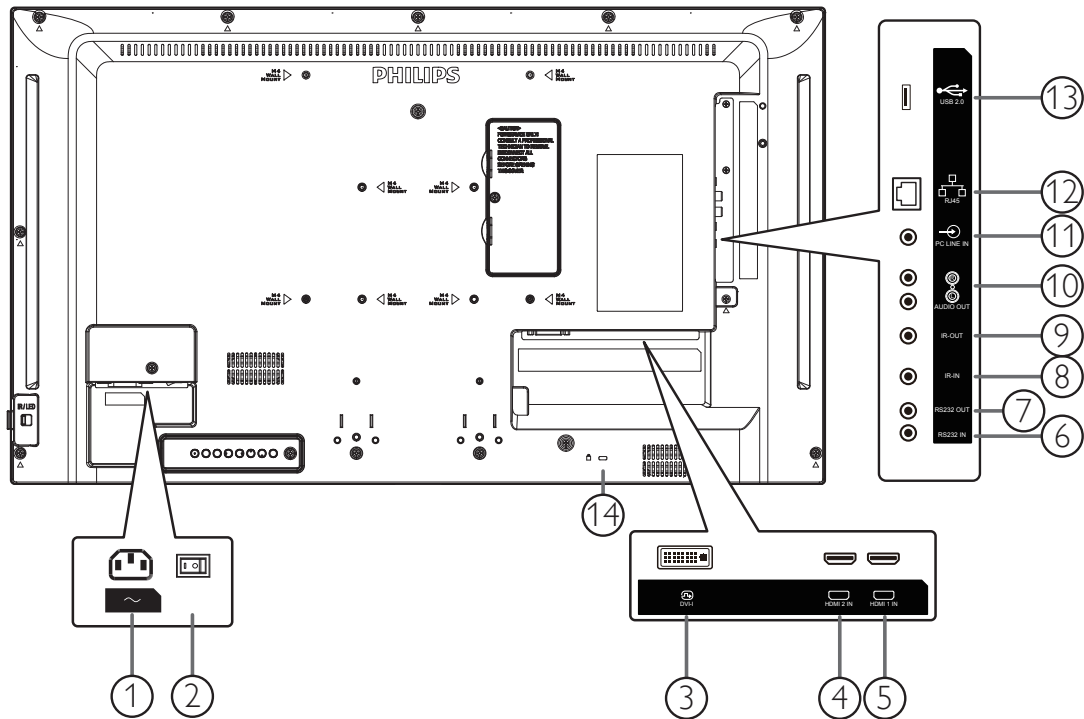
Return to the previous menu while the OSD menu is On. This button can also be used to activate the OSD menu when the OSD menu is Off.

⑨ Remote control sensor and power status indicator

- 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 the standby mode
 - When {SCHEDULE} is enabled, the light blinks green and red
 - If the light blinks red, it indicates that a failure has been detected
 - Lights off when the main power of the display is turned off

* Use an IR sensor cable for better remote control performance. (Please refer to the instructions of 3.5)

2.2. Input/Output Terminals



① AC IN

AC power input from the wall outlet.

② MAIN POWER SWITCH

Switch the main power between on and off.

③ DVI-I IN

DVI/VGA video input.

④ HDMI2 IN / ⑤ HDMI1 IN

HDMI video/audio input.

⑥ RS232 IN / ⑦ RS232 OUT

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

⑧ IR IN / ⑨ IR OUT

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

NOTES:

- This remote control sensor of this display will stop working if the jack [IR IN] is connected.
- To remotely control your A/V device via this display, refer to page 12 for IR Pass Through connection.

⑩ AUDIO OUT

Audio output to external AV device.

⑪ PC LINE IN

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

⑫ RJ-45

LAN control function for using the remote control signal from the control center.

⑬ USB 2.0 PORT

Connect your USB storage device and service port.

⑭ SECURITY LOCK

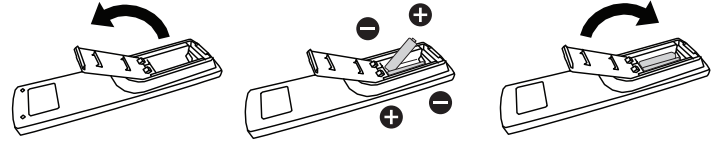
Used for protecting the product from stealing.

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

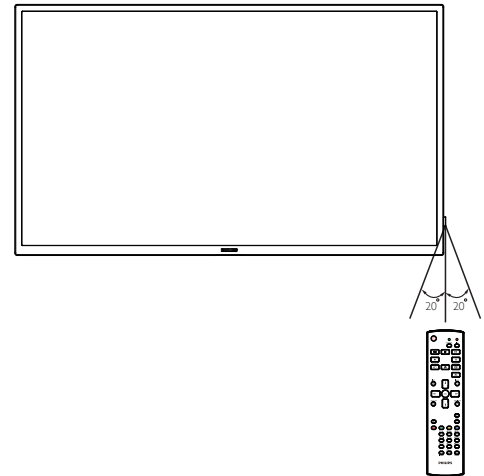
- Do not drop or apply shock to the remote control.
- Do not allow any liquid to get inside the remote control. If water has entered the remote control, wipe the remote control with a dry cloth immediately.
- Do not place the remote control near heat and steam sources.
- Do not attempt to disassemble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

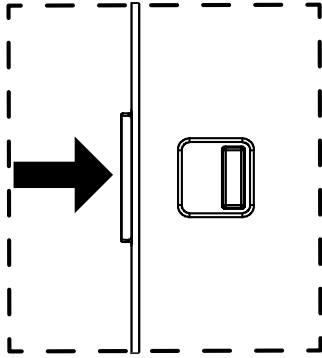
Use the remote control within a distance of less than 6m (pull the lens down and use the remote control from the front) /19ft from the display's sensor; and a horizontal and vertical angle of less than 20 degrees.

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

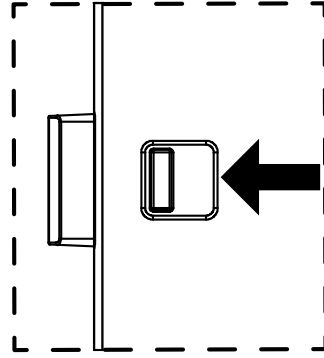


2.3. Using the remote sensor and power indicator

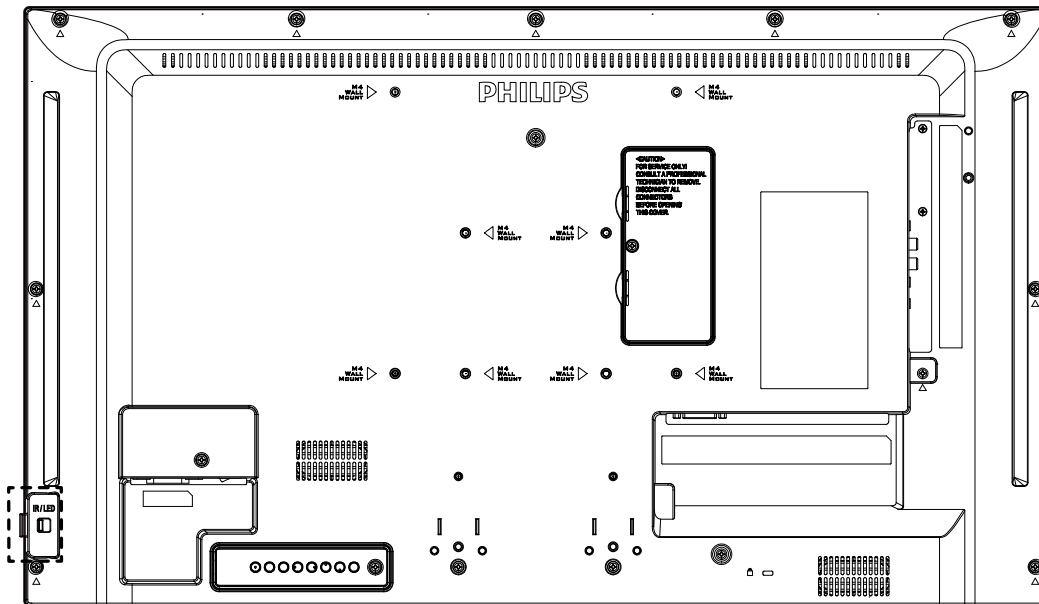
1. Push down the lens to have better remote control performance and make it easy to observe the power status.
2. Pull up the lens before mounting the display for video wall application.
3. Pull/push the lens until a click sound is heard.



Push right to collapse the lens

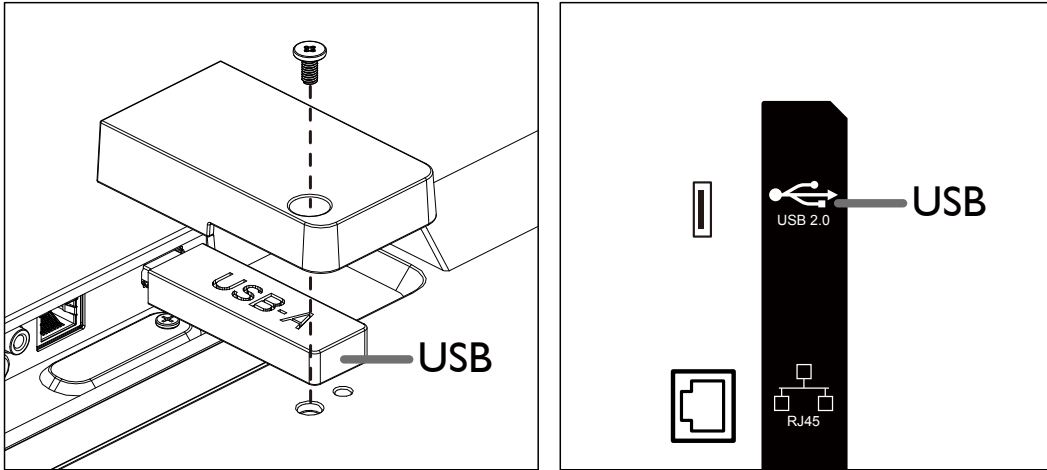


Push left to expand the lens

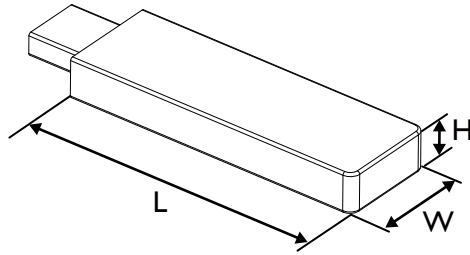


2.4. USB Cover

- Use the USB cover and screws to cover the USB stick and Micro SD card.

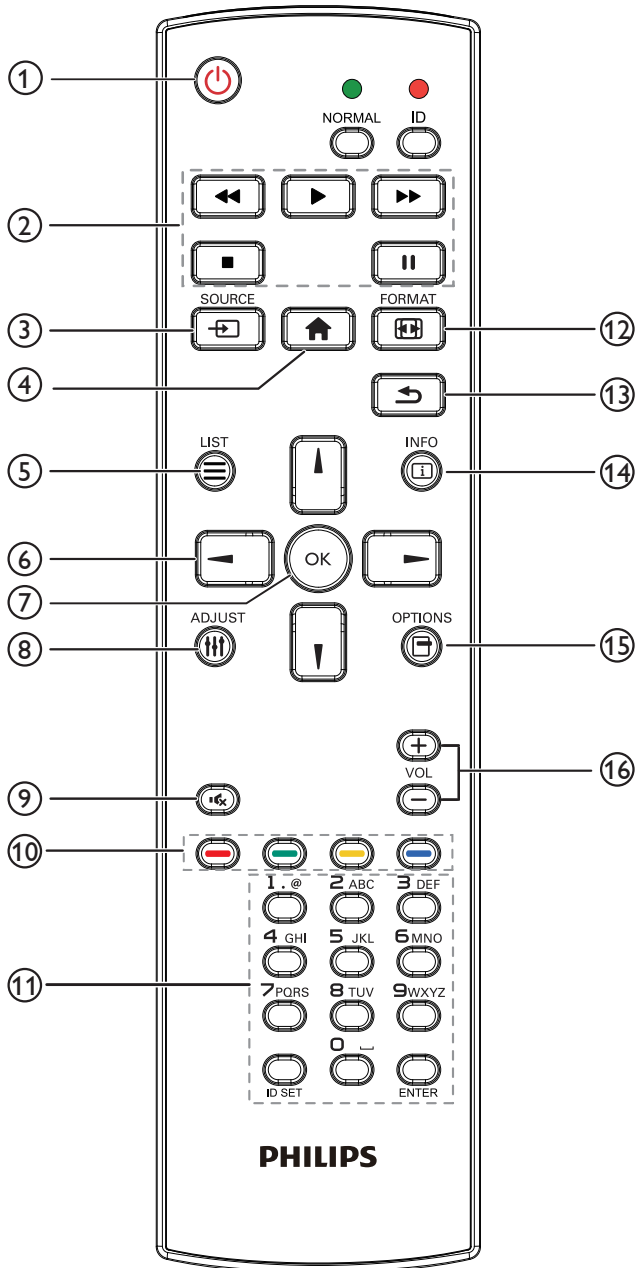


- Maximum USB stick size recommended:
USB: 20(W)x10(H)x60(L) mm



2.5. Remote Control

2.5.1. General functions



① **[POWER] POWER button**

Turns the power On/Off.

② **[PLAY] buttons**

Control playback of media files.

③ **[SOURCE] SOURCE button**

Select an input source.

④ **[HOME] HOME button**

Access the OSD menu.

⑤ **[LIST] LIST button**

No function.

⑥ **[UP][DOWN][LEFT][RIGHT] NAVIGATION buttons**

Navigate through the menus and select an item.

⑦ **[OK] button**

Confirm an entry or selection.

⑧ **[ADJUST] ADJUST button**

Go to Auto Adjust OSD for VGA only.

⑨ **[MUTE] MUTE button**

Sound mute on or off.

⑩ **[RED][GREEN][YELLOW][BLUE] COLOR buttons**

No functions.

⑪ **[Number/ ID SET/ ENTER] button**

Enter text for network setting.

Press to set the display ID. Refer to 2.5.2. ID Remote Control for more detail.

⑫ **[FORMAT] FORMAT button**

Change the picture format.

⑬ **[BACK] BACK button**

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

⑭ **[i] INFO button**

Display information about the current input signal.

⑮ **[OPTIONS] OPTIONS button**

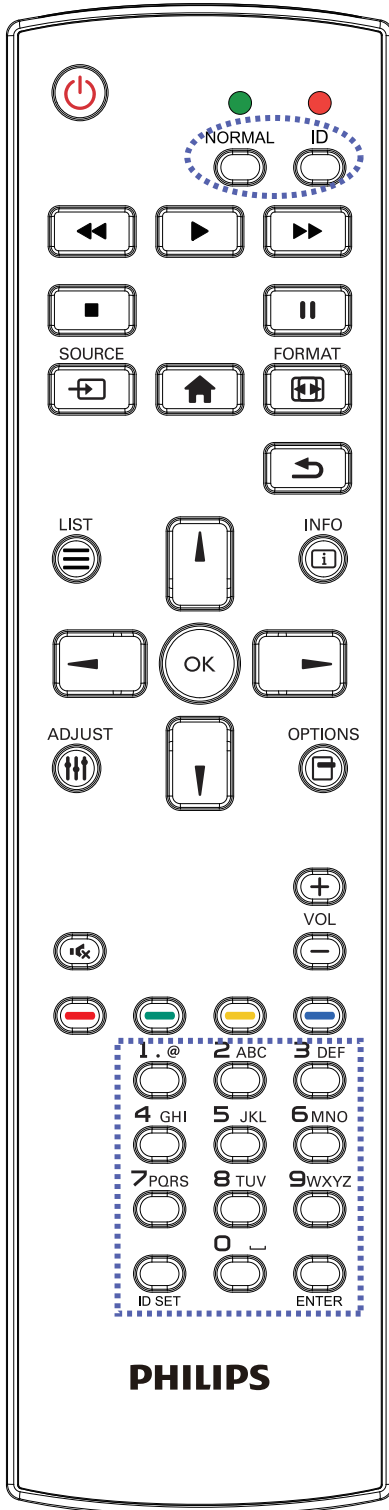
No functions.

⑯ **[VOL-][VOL+] VOLUME button**

Adjust volume level.

2.5.2. ID Remote Control

Set remote control ID number when using several displays.



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

1. Press the [ID SET] button for more than 1 second to enter the ID mode. The red LED lights up.
Press the [ID SET] button again to exit from 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 available numbers 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.

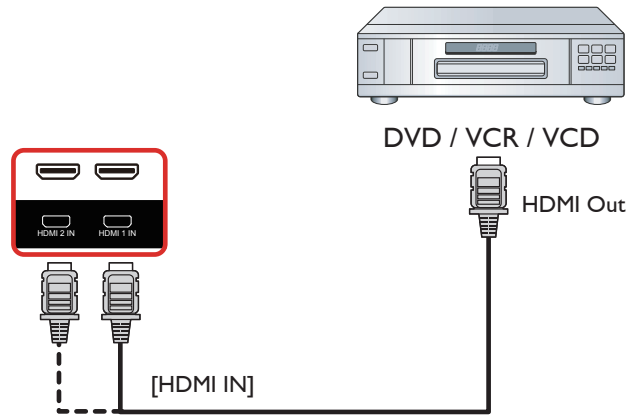
NOTE:

- Press the [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

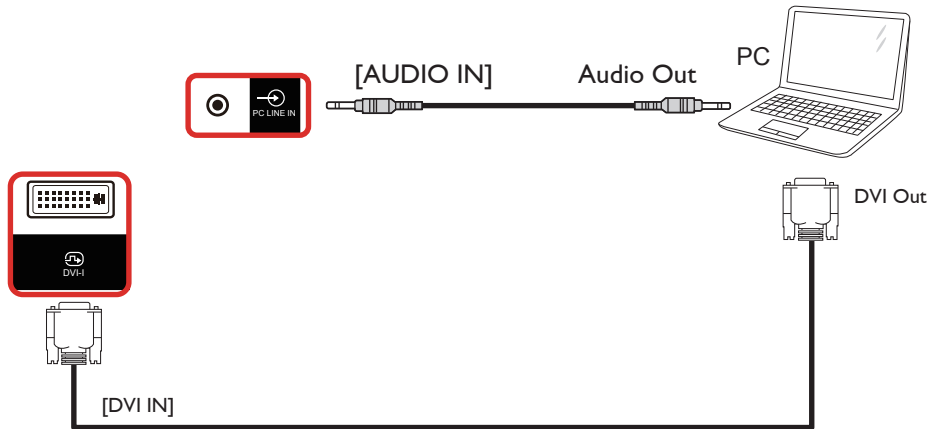
3.1. Connecting External Equipment (DVD/VCR/VCD)

3.1.1. Using HDMI video input

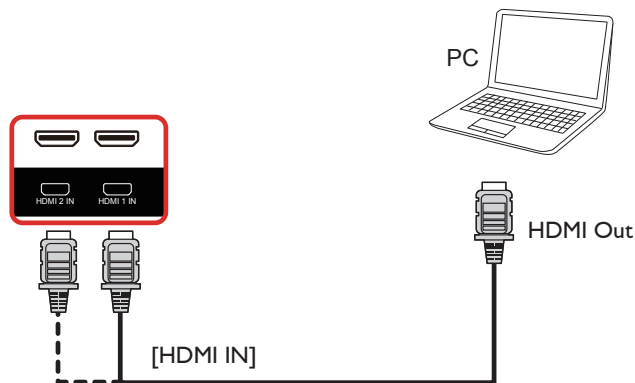


3.2. Connecting a PC

3.2.1. Using DVI input

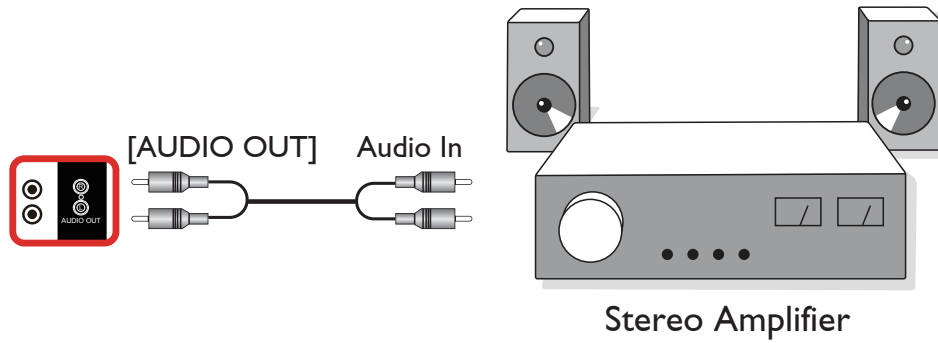


3.2.2. Using HDMI input



3.3. Connecting Audio Equipment

3.3.1. Connecting an external audio device

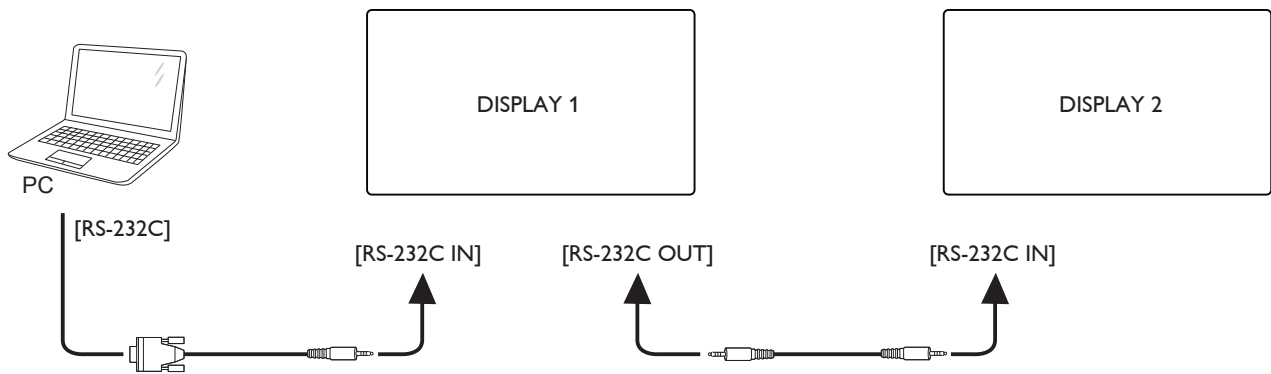


3.4. Connecting Multiple Displays in a Daisy-chain Configuration

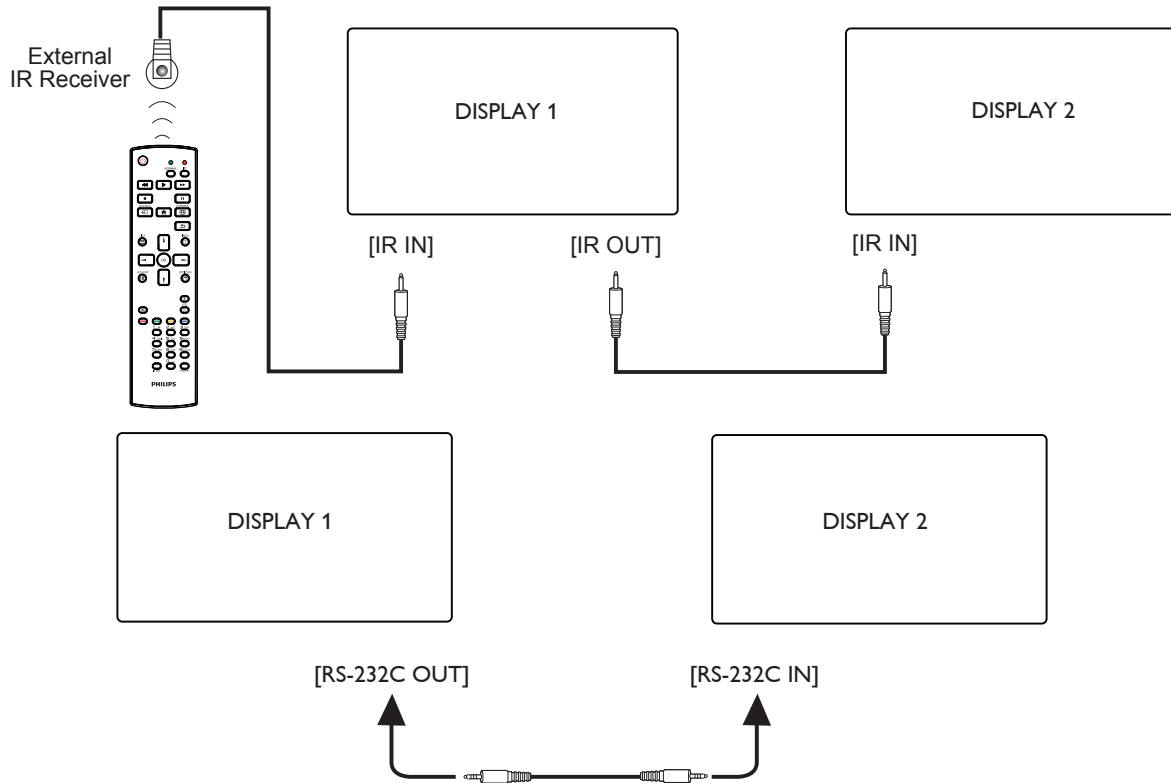
You can interconnect multiple displays to create a daisy-chain configuration for applications such as a menu board.

3.4.1. Display control connection

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



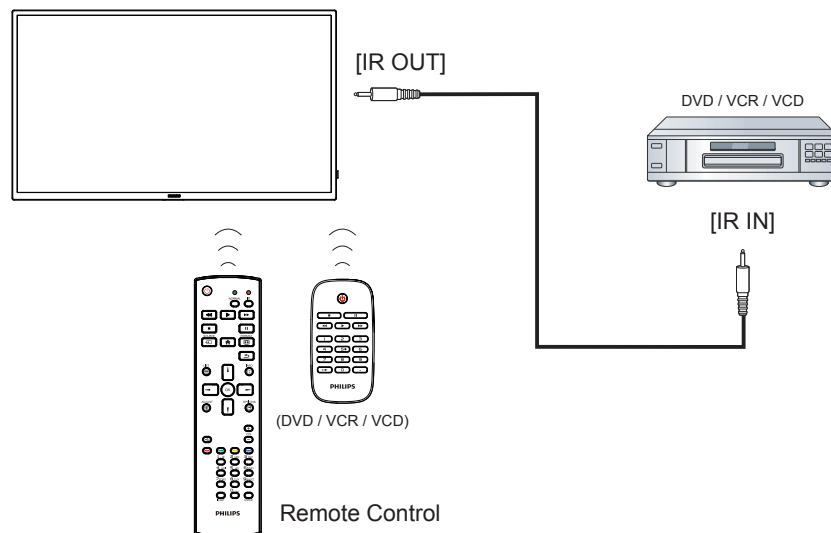
3.5. IR connection



NOTES:

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

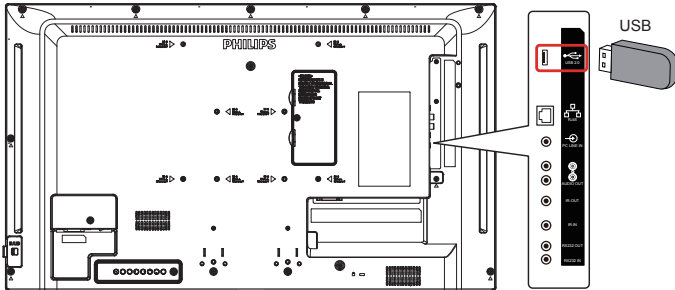


4. Operation

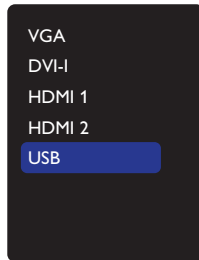
NOTE: The control button described in this section is mainly on the remote control unless specified otherwise.

4.1. Play multimedia files from USB device

1. Connect your USB device to the USB port on the display.



2. Press **[SOURCE]** button, choose **USB**, and press **[OK]** button.



3. The connected USB device is detected automatically for all its playable files, which will be automatically sorted into 3 types: **Photo**, **Music**, and **Movie**.



4. Press **[←]** or **[→]** button to choose the item. Press **[OK]** button to enter its play list.
5. Press **[↑]**, **[↓]**, **[←]** or **[→]** button to choose the file you want. Press **[OK]** or **[▶]** button to start playing.
6. Follow the on-screen instruction to control the play option.
7. Press **[PLAY]** buttons (**▶ || ■ ◀▶▶**) to control playing.



8. Press **[↑]**, **[↓]**, **[←]** or **[→]** button to choose "Return" item then press **[OK]** button to go up to the top layer in the screen.

5. OSD Menu

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

5.1. Navigating the OSD Menu

5.1.1. Navigating the OSD menu using the remote control



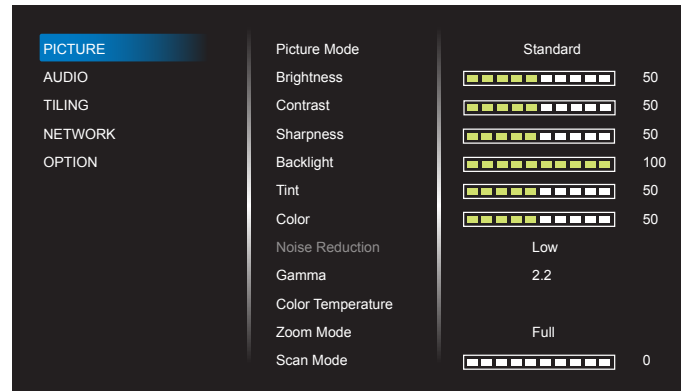
1. Press [HOME] button on the remote control to display the OSD menu.
2. Press [UP] or [DOWN] button to select the item to adjust.
3. Press [OK] or [LEFT] button to enter the submenu.
4. In the submenu, press [UP] or [DOWN] button to toggle between items, press [LEFT] or [RIGHT] button to adjust the settings. If there is a submenu, press [OK] or [LEFT] button to enter the submenu.
5. Press [BACK] button to return to the previous menu, or press [HOME] button to exit from the OSD menu.

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

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

5.2. OSD Menu Overview

5.2.1. Picture



Picture Mode

Select a predefined picture setting.

Brightness

Adjust the brightness of this display's backlight.

Contrast

Adjust the contrast ratio for the input signal.

Sharpness

This function is digitally capable to keep a distinct image at all times. Adjust the sharpness of the picture for each picture mode.

Backlight

Adjust the brightness of this display's backlight.

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

Tint (Hue)

Adjust tint of the screen.

Press + button to make the tone color greenish.

Press - button to make the tone color purplish.

NOTE: for VIDEO mode only.

Color (Saturation)

Adjust color saturation.

Press + button to increase color depth.

Press - button to decrease color depth.

NOTE: for VIDEO mode only

Noise Reduction

Reduce picture noise.

Gamma

Adjust gamma. It refers to the brightness performance curve of signal input. Select from {Native} / {2.2} / {2.4} / {S gamma} / {D-image}.

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

Color Temperature

Adjust color tone.

The image becomes reddish as the color temperature decreases, and becomes bluish as the color temperature increases.

Zoom mode

VGA/DVI-I/HDMI1/HDMI2: {Full} / {4:3} / {Real} / {16:9}.

USB: {Full} / {4:3} / {16:9}

Zoom Mode will be "Full" when tiling.

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

Scan mode

Change the display area of the image.

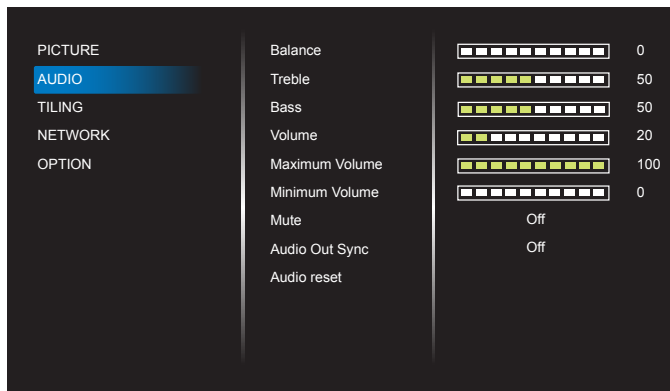
Picture reset

Reset all your picture settings to the factory defaults.

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

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

5.2.2. Audio



Balance

Adjust to emphasize left or right audio output balance.

Treble

Adjust to increase or decrease higher-pitched sounds.

Bass

Adjust to increase or decrease lower-pitched sounds.

Volume

Adjust the volume.

Maximum volume

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

Minimum volume

Adjust your own limitation for the minimum volume setting.

Mute

Turn the mute function on/off.

Audio Out Sync

Enable/disable the audio out volume.

Audio reset

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

5.2.3. Tiling



Create a single large-screen matrix (video wall) that consists of up to 225 sets of display (up to 15 sets in vertical side and 15 sets in horizontal side).

Enable

Enable or disable the Tiling function. If {On} is selected, the display will apply the settings in {H monitors}, {V monitors}, {Position}, and {Frame comp.}.

H monitors

Set how many displays in horizontal side.

V monitors

Set how many displays in vertical side.

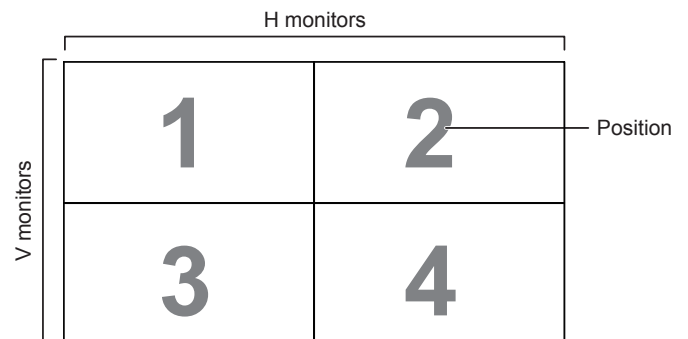
Position

Set the position of this display in the screen matrix.

Example: 2 x 2 screen matrix (4 displays)

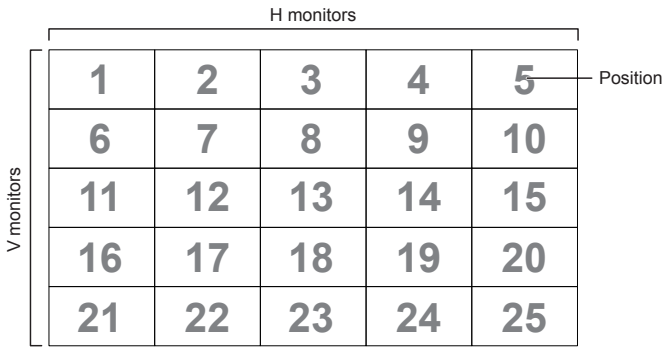
H monitors = 2 displays

V monitors = 2 displays



Example: 5 x 5 screen matrix (25 displays)

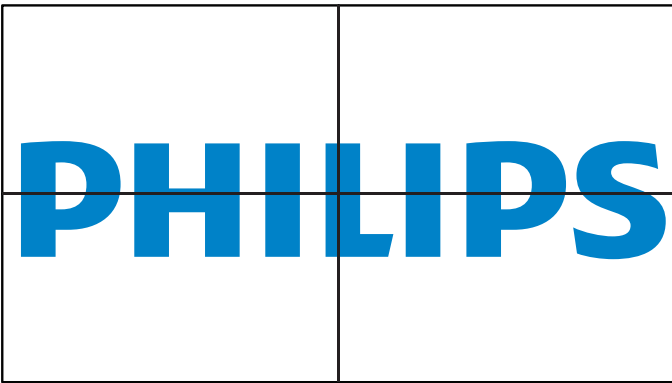
H monitors = 5 displays
 V monitors = 5 displays



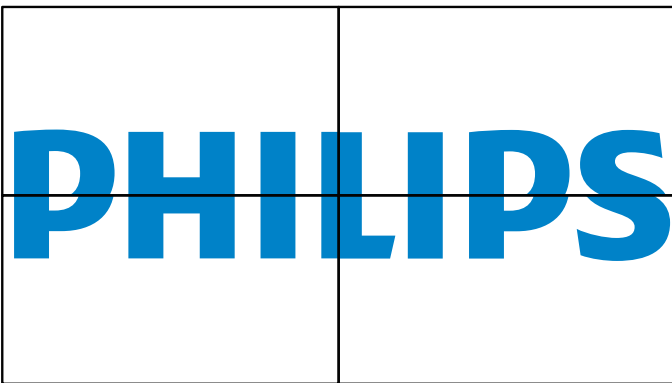
Frame comp.

Turn the frame compensation function On or Off. If you select {On}, the display will adjust the image to compensate for the width of the display bezels in order to accurately display the image.

{On}



{Off}



Frame comp. Top

Adjust the top frame compensation.

Frame comp. Bottom

Adjust the bottom frame compensation.

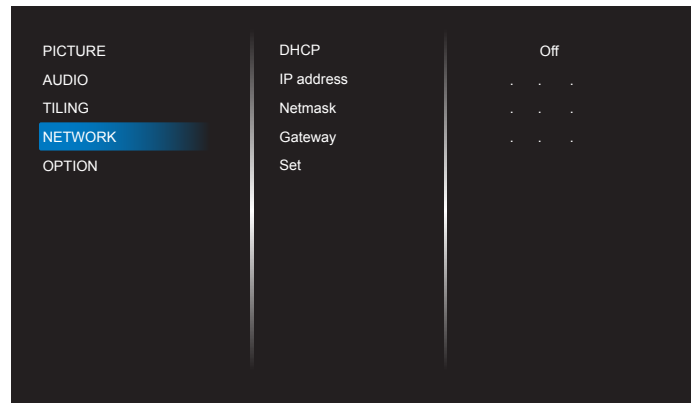
Frame comp. Left

Adjust the left frame compensation.

Frame comp. Right

Adjust the right frame compensation.

5.2.4. Network



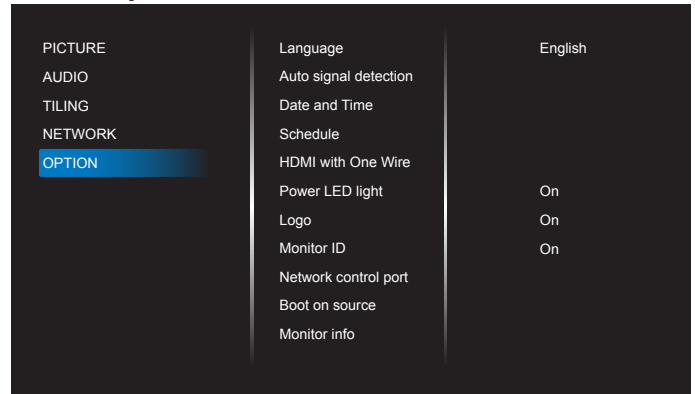
DHCP

Select how this display should assign address to the network resource. (On: DHCP & Auto IP, Off: Static IP). If DHCP is set to On, the device will request and be assigned an address every time it is booted up. Otherwise, you need to ask your network administrator for the appropriate IP settings.

IP address/Netmask/Gateway/Set

Enter the IP address/Netmask/Gateway/Set.

5.2.5. Option



Language

Set OSD menu language.

Auto signal detection

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

- {Off} - Once an input is connected, it can only be selected manually. If the selected input has signal, set the system to display the image automatically according to the search order of each option.

The options are: {Auto} / {Failover}

- {Auto}:VGA-> DVI-I-> HDMI1-> HDMI2->USB.
- {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.

- Failover 7: User-defined setting, Default:HDMI 1.

Date and time

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

NOTES:

The definition and behavior of the Daylight saving time:

The current implementation of daylight saving is a reminder tool for the user who doesn't know how to adjust the clock of daylight saving.

It does not adjust the real time clock automatically. The problem is that there are no standard rules on when to adjust the clock defined by region or country. To solve this problem, the user must be able to set the daylight saving start/end date. When daylight saving correction is on (user selectable) then the real time clock should be adjusted at the time set of the daylight saving on/off date. At the start date of daylight saving, the clock should be adjusted 1 hour forward at 2 o'clock. At the end date of daylight saving, the clock should be adjusted 1 hour backward at 2 o'clock.

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

The menu item **{Daylight saving}** opens the submenu that contains 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}**
- Menu item **{Correction time}** Selection item **{0.5, 1.0, 1.5, 2.0}** hour
- Menu item **{Daylight saving}** Selection item **{on, off}**

When "daylight saving" is "on", the real time clock will be adjusted automatically at the daylight saving time (e.g. April 5, 2015, 02.00 o'clock: time will be set 1 hour later or October 25, 2015, 02.00 o'clock: time will be set 1 hour earlier).

Schedule

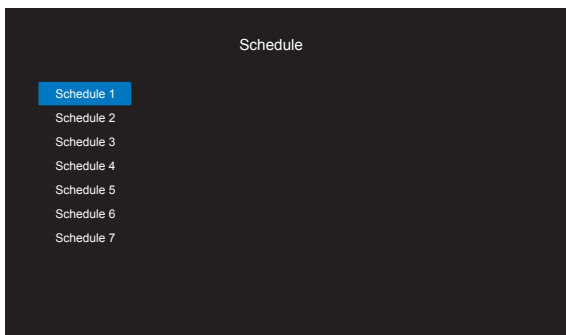
This function allows you to program up to 7 (seven) different scheduled time intervals for the display to activate.

You can select:

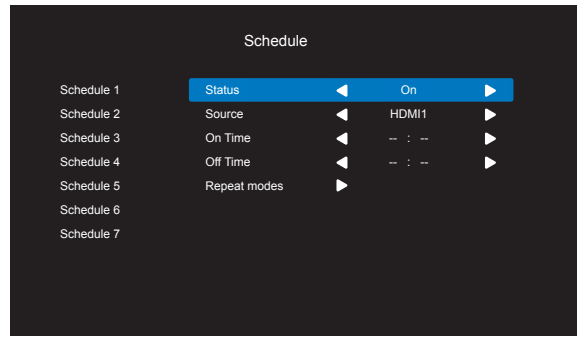
- The time for the display to turn On and Off.
- The days in a week for the display to activate.
- Which input source the display will use for each scheduled activation period.

NOTE: It is recommended that you set up the 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 press **[OK]** or **[←]** button to enter the submenu.



- **{Status}** - Press **[←]** or **[→]** button to select the status On or Off.
 - **{Source}** - Press **[←]** or **[→]** button to select the input source.
 - **{On Time}** - Press **[↓]** or **[↑]** button to adjust and the display will turn on at the specified time.
 - **{Off Time}** - Press **[↓]** or **[↑]** button to adjust and the display will turn off at the specified time. Leave hour and minute options empty if you do not want to use the function of power-on or power-off schedule.
 - **{Repeat modes}** - Press **[→]** button to select which day in a week this schedule item will take effect, and then press the **[OK]** button.
3. 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.

Power LED Light

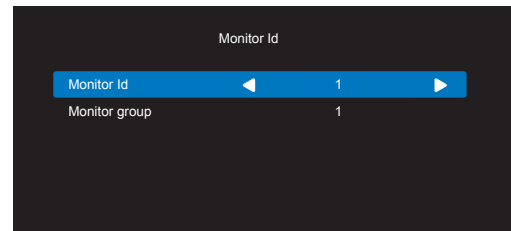
Select **{Off}** to turn off the indicator.

Logo

Select **{Off}** and the display will not display the **PHILIPS** logo when you switch on.

Monitor ID

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



- **{Monitor group}**
 - **{1-255}** - {Monitor group} are supported. The default setting is 1.

Network control port.

Select from: {RS232} / {LAN}.

Boot on source

Select the input source when booting.

Input: select the input source when booting.

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

Monitor information

Show information about your display, including Input source, Resolution, Model name, SW version, Serial number and MAC address.

Power Save

Mode 1 [TCP off, auto off]

Mode 2 [TCP on, auto on/off]

Power save modes

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

Power Save -> Power off, LED: Red

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

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

	RCU Power Button Off	No Signal
Mode 1 [TCP off, auto off]	DC OFF	DC OFF
Mode 2 [TCP on, auto on/off]	DC OFF	When signal is back, system wakes up

Firmware update

Update scalar firmware by USB.

Factory Reset

Reset all your customized settings to the factory default values.

Option Reset

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

6. Supported Media Formats

USB Multimedia Formats

Video format		
Video Codec	Resolution	Bit Rate
MPEG1/2	1080P@30fps	40Mbps
H.264	1080P@30fps	50Mbps
WMV3	1080P@30fps	40Mbps
Motion JPEG	640x480@30fps	40Mbps

Audio format			
Audio Codec	Sampling Rate:	Channel	Bit Rate
MPEG1/2 Layer1	16KHz~48KHz	Up to 2	32Kbps~448Kbps
MPEG1/2 Layer2	16KHz~48KHz	Up to 2	8Kbps~384Kbps
MPEG1/2 Layer3	16KHz~48KHz	Up to 2	8Kbps~320Kbps
AAC, HEAAC	8KHz~48KHz	Up to 5.1	32Kbps~448Kbps
WMA	8KHz~48KHz	Up to 2	128Kbps~320Kbps

Photo format		
Image	Photo	Resolution
JPEG	Base-line	15360x8640 (1920x8 × 1080x8)
	Progressive	1024x768
PNG	non-interlace	9600x6400
	interlace	1200x800
BMP		9600x6400

NOTES:

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

7. Input Mode

Timing support:

Item	Resolution	H.Freq. (KHz)	V.Freq. (Hz)
1	720×400 @70Hz DOS	31.469	70.087
2	640×480 @60Hz DMT	31.469	59.94
3	640×480 @67Hz MAC	35	66.667
4	640×480 @72Hz DMT	37.861	72.809
5	640×480 @75Hz DMT	37.5	75
6	800×600 @56Hz DMT	35.156	56.25
7	800×600 @60Hz DMT	37.879	60.317
8	800×600 @72Hz DMT	48.077	72.188
9	800×600 @75Hz DMT	46.875	75
10	832×624 @75Hz MAC	49.725	74.5
11	1024×768 @60Hz DMT	48.363	60.004
12	1024×768 @70Hz DMT	56.476	70.069
13	1024×768 @75Hz DMT	60.023	75.029
14	1152×864 @75Hz DMT	67.5	75
15	1152×870 @75Hz MAC	68.681	75.062
16	1280×720 @60Hz CVT16:9	44.772	59.855
17	1280×800 @60Hz CVT16:10	49.702	59.81
18	1280×1024 @60Hz DMT	63.981	60.02
19	1440×900 @60Hz CVT16:10 R	55.469	59.901
20	1440×900 @60Hz CVT16:10	55.935	59.887
21	1600×1200 @60Hz CVT16:9	75	60
22	1680×1050 @60Hz CVT16:9 R	64.674	59.883
23	1680×1050 @60Hz CVT16:9	65.29	59.954
24	1920×1080 @60Hz CVT-RB / XBOX360	66.7	60
25	1920×1080 @60Hz DMT-RB	67.5	60
26	480i@60Hz	15.734	59.94
27	480P@60Hz	31.469	59.94
28	720P@60Hz	44.955	59.94
29	1080i@60Hz	33.716	59.94
30	1080P@60Hz	67.433	59.94
31	576i@50Hz	15.625	50
32	576P@50Hz	31.25	50
33	720P@50Hz	37.5	50
34	1080i@50Hz	28.125	50.08
35	1080P@50Hz	56.25	50

- The PC text quality is optimum in FHD mode (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.

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 display. Moving the display 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 connected correctly.
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 disappears)</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 does the RC work?</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
Screen Size (Active Area)	800 mm / 31.5 inch
Aspect Ratio	16:9
Number of pixels	1920 (H) × 1080 (V)
Pixel pitch	0.36375 (H) × 0.36375 (V) [mm]
Displayable colors	8 bit, 16.7M colors
Brightness (typical)	350 cd/m ²
Contrast ratio (typical)	1200:1
Viewing angle	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	RCA R/L × 1 0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	3.5mm phone jack × 1 0.5V [rms] (Normal) / 2 Channel (L+R)
RS232C	2.5mm Phone jack × 2 RS232C in/RS232C out
RJ-45	RJ-45 Jack × 1 (8 pin) 10/100 LAN Port
HDMI Input	HDMI Jack × 2 (Type A) (19 pin) Digital RGB:TMDs (Video + Audio) MAX: Video - 720p, 1080p, 1920 × 1080/60 Hz Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
DVI-I Input	DVI-I Jack Digital RGB:TMDs (Video)
IR Input/Output	3.5mm × 2 IR pass through or IR daisy chain
USB Input	USB × 1 (Type A) USB 2.0, Multimedia play and service port

General:

Item	Specifications
Power Input	100 - 240V~, 50-60Hz, 1.5A
Power Consumption (Max)	75 W
Power Consumption (typ.)	50 W
Power Consumption (Standby & Off)	<0.5 W
Dimensions [W × H × D]	726.50 × 425.40 × 67.60 mm
Weight	5.2 0Kg
Gross Weight	7.70 Kg
Energy Efficiency Class	B
Visible Screen Size	800 mm / 31.5 inch
On Mode Power Consumption (W)	50 W
Annual Energy Consumption (kWh)	73 kWh
Standby Power Consumption (W)	0.50 W
Off Mode Power Consumption (W)	0.30 W
Display Resolution (Pixels)	1920 × 1080

Environmental Condition:

Item		Specifications
Temperature	Operational	0 ~ 35°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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