

**THE DISPLAY CHOICE
OF PROFESSIONALS™**

PM-65P LED-Backlit Display

User Manual

www.agneovo.com

TABLE OF CONTENTS

SAFETY INFORMATION	1
REGULATORY INFORMATION.....	3
CE Declaration of Conformity.....	3
Polish Center for Testing and Certification Notice.....	4
Electric, Magnetic and Electromagnetic Fields (“EMF”).....	5
North Europe (Nordic Countries) Information	6
End-of-Life Disposal.....	6
Waste Electrical and Electronic Equipment-WEEE	7
CHAPTER 1: UNPACKING AND INSTALLATION.....	8
1.1. Unpacking.....	8
1.2. Package Contents	8
1.3. Installation Notes	8
1.4. Mounting on a Wall	9
1.4.1. VESA Grid.....	9
CHAPTER 2: PARTS AND FUNCTIONS	11
2.1. Control Panel	11
2.2. Input/Output Terminals.....	12
2.3. Remote Control.....	13
2.3.1 General functions	13
2.3.2 ID Remote Control	14
2.3.3 Inserting the batteries in the remote control	15
2.3.4 Handling the remote control	15
2.3.5 Operating range of the remote control.....	15
CHAPTER 3: CONNECTING EXTERNAL EQUIPMENT	16
3.1 Connecting External Equipment (DVD/VCR/VCD).....	16
3.1.1 Using COMPONENT video input.....	16
3.1.2 Using Video Source input	16
3.1.3. Using HDMI video input.....	17
3.2 Connecting a PC.....	17
3.2.1. Using VGA input	17
3.2.2. Using DVI input.....	18
3.2.3. Using HDMI input.....	18
3.2.4. Using DisplayPort input	18
3.3. Connecting Audio Equipment	19
3.3.1. Connecting external speakers	19
3.3.2. Connecting an external audio device	19
3.4. Connecting Multiple Displays in a Daisy-chain Configuration.....	19
3.4.1. Display control connection.....	19
3.4.2. Digital video connection.....	20
3.4.3. Analog video connection	21
3.5. IR connection.....	21

TABLE OF CONTENTS

3.6. IR Pass-through Connection.....	22
3.7. Wire-connecting to Network.....	22
CHAPTER 4: OPERATION.....	23
4.1. Watch the Connected Video Source.....	23
4.2. Change Picture Format.....	23
4.3. Choose your Preferred Picture Settings	23
4.4. Choose your Preferred Sound Settings.....	23
4.5. Play multimedia files via Local Area Network	24
4.5.1. Set up the network.....	24
4.5.2. How to use DLNA-DMP	24
4.5.3. How to use DLNA-DMR from PC.....	25
4.6. Play multimedia files from USB device	27
4.7. Play options	27
4.7.1. Playing music files	27
4.7.2. Playing movie files.....	28
4.7.3. Playing photo files	28
CHAPTER 5: CHANGE YOUR SETTINGS.....	29
5.1. Settings.....	30
5.1.1. Picture.....	30
5.1.2. Sound	31
5.1.3. Tiling	32
5.1.4. General settings	33
5.2. Network Settings.....	39
CHAPTER 6: USB DEVICE COMPATIBILITY.....	40
6.1. USB device compatibility	40
CHAPTER 7: INPUT MODE	41
CHAPTER 8: TROUBLESHOOTING	43
8.1. Troubleshooting	43
CHAPTER 9: TECHNICAL SPECIFICATIONS	44

SAFETY INFORMATION

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 at all times. If your power cord is missing, please contact your local service center.
- Do not subject the display to severe vibration or high impact conditions during operation.
- Do not knock or drop the display during operation or transportation.

Maintenance:

- To protect your display from possible damage, do not put excessive pressure on the LCD panel. When moving your display, grasp the frame to lift; do not lift the display by placing your hand or fingers on the LCD panel.
- Unplug the display if you are not going to use it for an extensive period of time.
- Unplug the display if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use organic solvent, such as, alcohol, or ammonia-based liquids to clean your display.
- To avoid the risk of shock or permanent damage to the set, do not expose the display to dust, rain, water or an excessively moist environment.
- If your display becomes wet, wipe it with dry cloth as soon as possible.
- If a foreign substance or water gets in your display, turn the power off immediately and disconnect the power cord. Then remove the foreign substance or water, and send the unit to the maintenance center.
- Do not store or use the display in locations exposed to heat, direct sunlight or extreme cold.
- In order to maintain the best performance of your display and ensure a longer lifetime, we strongly recommend using the display in a location that falls within the following temperature and humidity ranges.
 - Temperature: 0-40°C 32-104°F
 - Humidity: 20-80% RH

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.

SAFETY INFORMATION

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.

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.

REGULATORY INFORMATION

CE 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.

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.

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



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.

REGULATORY INFORMATION

Polish Center for Testing and Certification Notice

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

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

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

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

Wymagania Polskiego Centrum Badań i Certyfikacji

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

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

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

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

Pozostałe instrukcje bezpieczeństwa

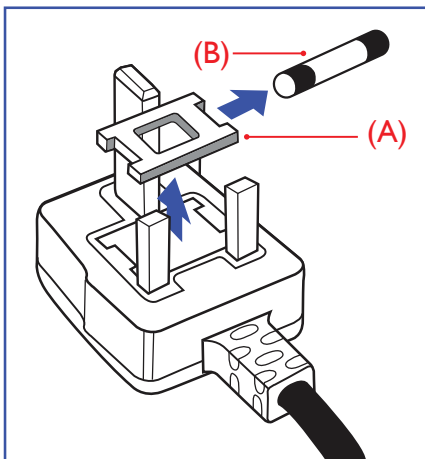
- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami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

REGULATORY INFORMATION

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.

⚠ NOTES: 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:

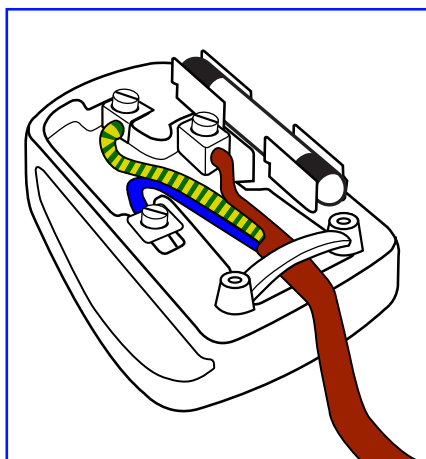
BLUE - “NEUTRAL” (“N”)

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 is 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.



REGULATORY INFORMATION

設備名稱：液晶彩色顯示器，型號（型式）：PM-65P						
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	○	○	○	○	○	○
LCD panel	—	○	○	○	○	○
電路板組件	—	○	○	○	○	○
底座	○	○	○	○	○	○
電源線	—	○	○	○	○	○
其他線材	—	○	○	○	○	○
遙控器	—	○	○	○	○	○
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。						

North Europe (Nordic Countries) Information

Placering/Ventilation

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

Placering/Ventilation

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

Paikka/Ilmankierto

VAROITUS: SIJOITA LAITE SITEN, ETTÄ VERKKOJOHTO VOIDAAN TARVITTAESSA HELPOSTI IRROTTAA 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 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)

REGULATORY INFORMATION

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 2002/96/EG governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

Attention users in United States:

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

End of Life Directives-Recycling



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

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

Restriction on Hazardous Substances statement (India)

This product complies with the "India E-waste Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the 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.

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.

Turkey RoHS

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

CHAPTER 1: UNPACKING AND INSTALLATION

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

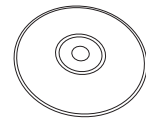
1.1. Unpacking

- 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.

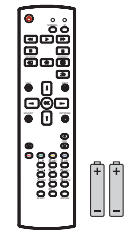
1.2. Package Contents

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

- LCD display
- User manual
- Remote control with AAA batteries
- Power cord (1.8 m)
- RS232 cable (1.8 m)
- VGA cable (1.8 m)
- Daisy chain cable(1.8 m)



User manual

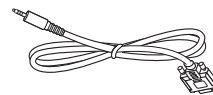


Remote Control and AAA Batteries

* The supplied power cord varies depending on destination.



Power Cord



RS232 Cable



Daisy chain cable



Video Signal Cable (D-SUB to D-SUB Cable)

⚠ 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.
- You might like to save the package box and packing material for shipping the display.

1.3. Installation Notes

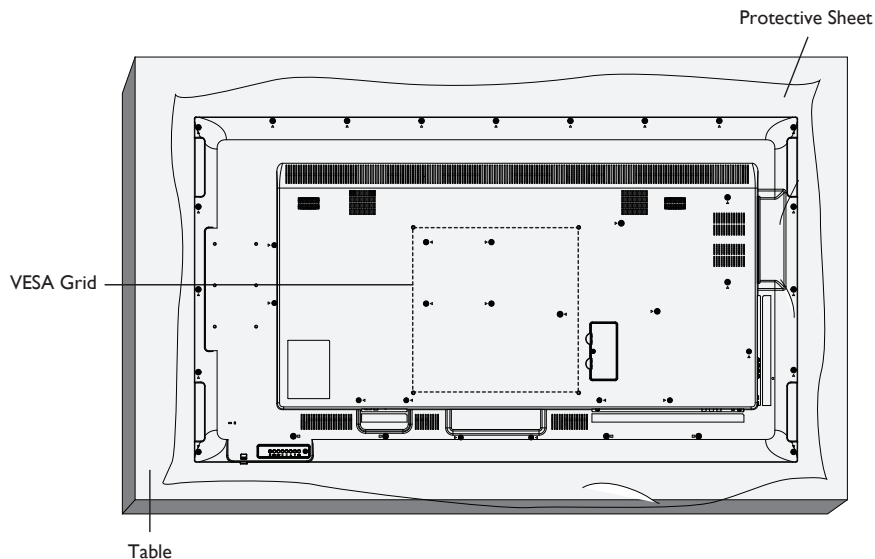
- Due to the high power consumption, always use the plug exclusively designed for this product. If an extended line is required, please consult your service agent.
- The product should be installed on a flat surface to avoid tipping. The distance between the back of the product and the wall should be maintained for proper ventilation. Avoid installing the product in the kitchen, bathroom or any other places with high humidity so as not to shorten the service life of the electronic components.

UNPACKING AND INSTALLATION

- The product can normally operate only under 3000m in altitude. In installations at altitudes above 3000m, some abnormalities may be experienced.

1.4. Mounting on a Wall

To mount this display to a wall, you will have to obtain a standard wall-mounting kit (commercially available). We recommend using a mounting interface that complies with TUV-GS and/or UL1678 standard in North America.



1. Lay a protective sheet on a table, which was wrapped around the display when it was packaged, beneath the screen surface so as not to scratch the screen face.
2. Ensure you have all accessories for mounting this display (wall mount, ceiling mount, table stand, etc).
3. Follow the instructions that come with the base mounting kit. Failure to follow correct mounting procedures could result in damage to the equipment or injury to the user or installer. Product warranty does not cover damage caused by improper installation.
4. For the wall-mounting kit, use M6 mounting screws (having a length 10 mm longer than the thickness of the mounting bracket) and tighten them securely.
5. Unit without base weight= 24.8 kg. The equipment and its associated mounting means still remain secure during the test. For use only with UL Listed Wall Mount Bracket with minimum weight/load: 24.8 kg.
6. Portrait is not allowed

1.4.1. VESA Grid

PM-65P	400(H) x 400(V) mm
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⚠ Caution:

To prevent the display from falling:

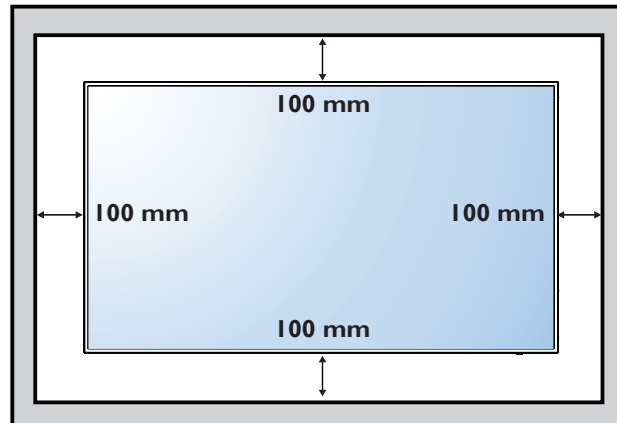
- For wall or ceiling installation, we recommend installing the display with metal brackets which are commercially available. For detailed installation instructions, refer to the guide received with the respective bracket.

UNPACKING AND INSTALLATION

- To lessen the probability of injury and damage resulting from fall of the display in case of earthquake or other natural disaster, be sure to consult the bracket manufacturer for installation location.

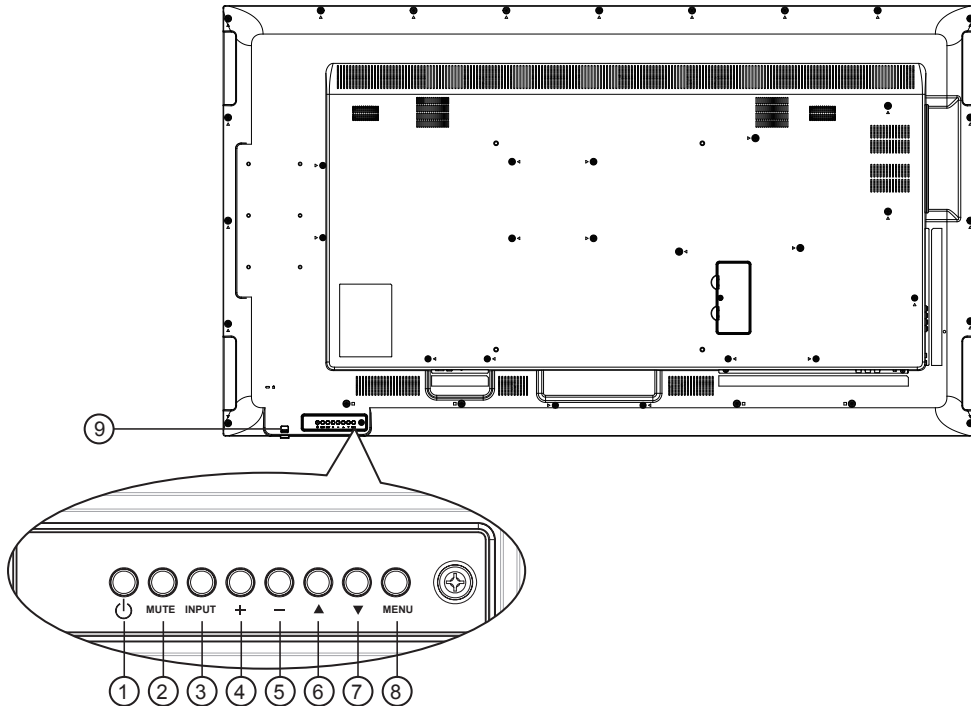
Ventilation Requirements for enclosure locating

To allow heat to disperse, leave space between surrounding objects as shown in the diagram below.



CHAPTER 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.

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

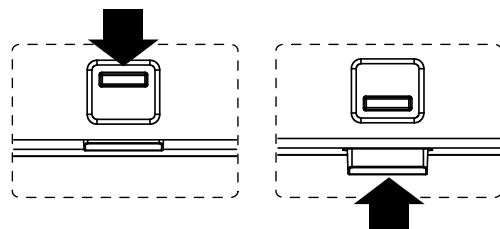
Move the highlight bar down to adjust the selected item while OSD menu is on.

⑧ [MENU] button

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

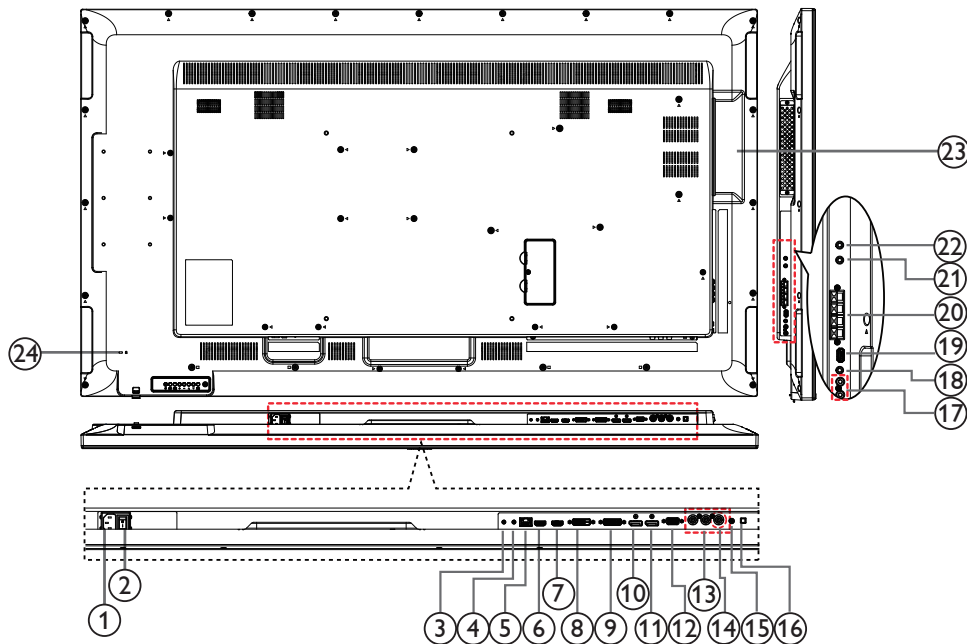
⑨ Remote control sensor and power status indicator

- 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
 - Lights amber when the display enters APM mode
 - 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.



PARTS AND FUNCTIONS

2.2. Input/Output Terminals

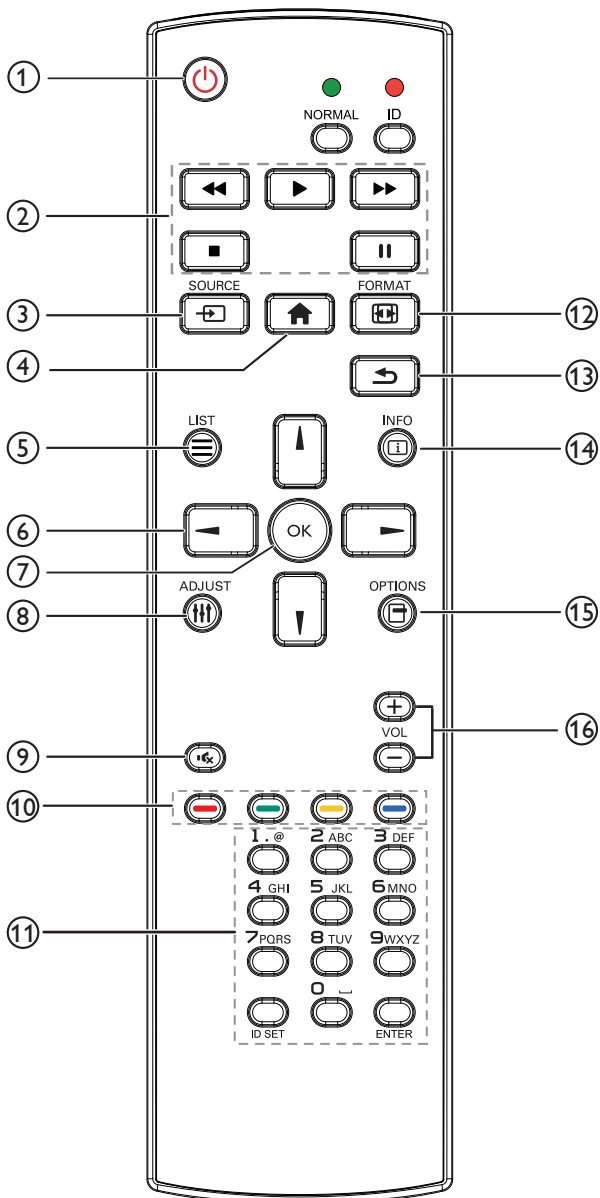


- ① **AC IN**
AC power input from the wall outlet.
- ② **MAIN POWER SWITCH**
Switch the main power on/off.
- ③ **RS232C IN** / ④ **RS232C OUT**
RS232C network input / output for the loop-through function.
- ⑤ **RJ-45**
LAN control function for the use of remote control signal from control center.
- ⑥ **HDMI1 IN** / ⑦ **HDMI2 IN**
HDMI video/audio input.
- ⑧ **DVI IN**
DVI-D video input.
- ⑨ **DVI OUT / VGA OUT**
DVI or VGA video output.
- ⑩ **DisplayPort IN** / ⑪ **DisplayPort OUT**
DisplayPort video input / output.
- ⑫ **VGA IN (D-Sub)**
VGA video input.
- ⑬ **COMPONENT IN (BNC)**
Component YPbPr video source input.
- ⑭ **Y/CVBS**
Video source input.
- ⑮ **PC LINE IN**
Audio input for VGA source (3.5mm stereo phone).
- ⑯ **SPEAKER SWITCH**
Internal speaker on/off switch.
- ⑰ **AUDIO IN**
Audio input from external AV device (RCA).
- ⑱ **AUDIO OUT**
Audio output to external AV device.
- ⑲ **USB PORT**
Connect your USB storage device.
- ⑳ **SPEAKERS OUT**
Audio output to external speakers.
- ㉑ **IR IN** / ㉒ **IR OUT**
IR signal input / output for the loop-through function.
▲ NOTE:
 - 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 22 for or IR Pass Through connection.
- ㉓ **OPS SLOT**
Slot for installing the optional OPS module.
▲ NOTE: We recommend to use Advantech ARK-DS220B-D6A1E or Winmate OMIS-OPS modules. We'll not guarantee other OPS modules
- ㉔ **SECURITY LOCK**
Used for security and theft prevention.

PARTS AND FUNCTIONS

2.3. Remote Control

2.3.1 General functions

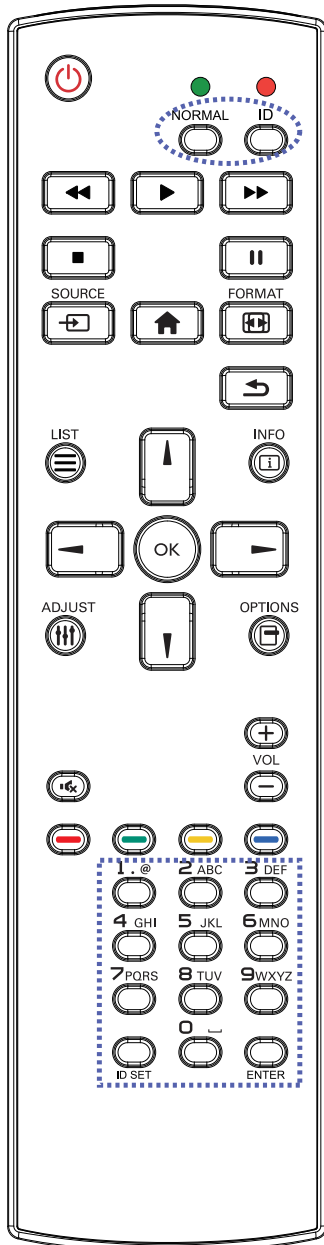


- ① **[POWER] button**
Turn the display on or put the display to standby.
- ② **[PLAY] buttons**
Control playback of media files.
- ③ **[SOURCE] button**
Choose input source. Press [←] or [→] button to choose from **USB, Network, HDMI 1, HDMI 2, DisplayPort, Card OPS, DVI-D, YPbPr, AV, or VGA**. Press [OK] button to confirm and exit.
- ④ **[HOME] button**
Access the OSD menu.
- ⑤ **[LIST] button**
No function.
- ⑥ **[NAVIGATION] buttons**
Navigate through menus and choose items.
- ⑦ **[OK] button**
Confirm an entry or selection.
- ⑧ **[ADJUST] button**
Access currently available options, picture and sound menus.
- ⑨ **[MUTE] button**
Press to turn the mute function on/off.
- ⑩ **[COLOR] buttons**
Choose tasks or options.
- 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 detail.
- ⑫ **[FORMAT] button**
Change picture format.
- ⑬ **[BACK] button**
Return to the previous menu page or exit from the previous function.
- ⑭ **[INFO] button**
Display information about current activity.
- ⑮ **[OPTIONS] button**
Access currently available options, picture and sound menus.
- ⑯ **[VOLUME] button**
Adjust volume.

PARTS AND FUNCTIONS

2.3.2 ID Remote Control

You can set the remote control ID when you want to use this remote control on one of several different displays.



Press [ID] button. 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 you want to control.

For example: press [0] and [1] for display No.1, press [1] and [1] for display No.11.

The numbers available are from [01] ~ [255].

2. Not pressing any button within 10 seconds will exit the ID Mode.
3. If an error pressing of buttons other than the digits occurred, wait 1 second after the red LED lights off and then lights up again, then press the correct digits again.
4. Press [ENTER] button to confirm. The red LED blinks twice and then lights off.

▲ NOTE:

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

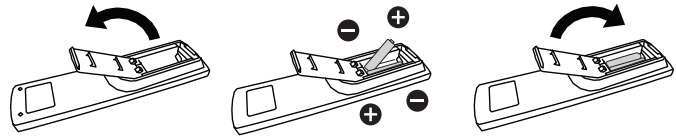
PARTS AND FUNCTIONS

2.3.3 Inserting the batteries in the remote control

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

To install or replace batteries:

1. Press and then slide the cover to open it.
2. Align the batteries according to the (+) and (-) indications inside the battery compartment.
3. Replace the cover.



⚠ Caution:

The incorrect use of batteries can result in leaks or bursting. Be sure to follow these instructions:

- Place “AAA” batteries matching the (+) and (-) signs on each battery to the (+) and (-) signs of the battery compartment.
- Do not mix battery types.
- Do not combine new batteries with used ones. It causes shorter life or leakage of batteries.
- Remove the dead batteries immediately to prevent them from liquid leaking in the battery compartment. Don't touch exposed battery acid, as it can damage your skin.

⚠ **NOTE:** If you do not intend to use the remote control for a long period, remove the batteries.

2.3.4 Handling the remote control

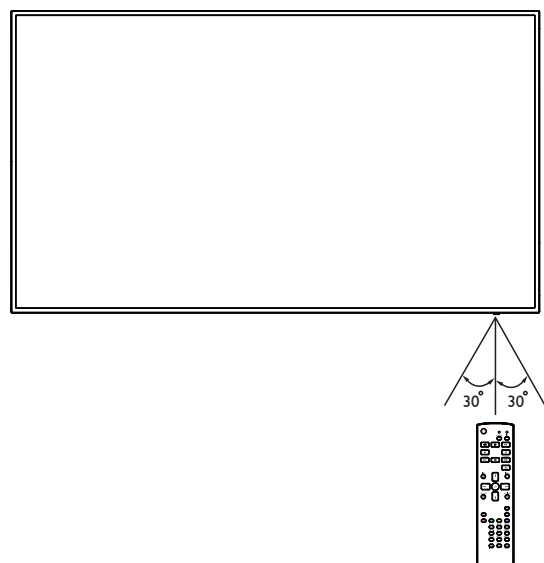
- Do not subject to strong shock.
- Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
- Avoid exposure to heat and steam.
- Other than to install the batteries, do not open the remote control.

2.3.5 Operating range of the remote control

Point the top of the remote control toward the display's remote control sensor when pressing a button.

Use the remote control within a distance of less than 8m/26ft from the display's sensor, and a horizontal and vertical angle of less than 30 degrees.

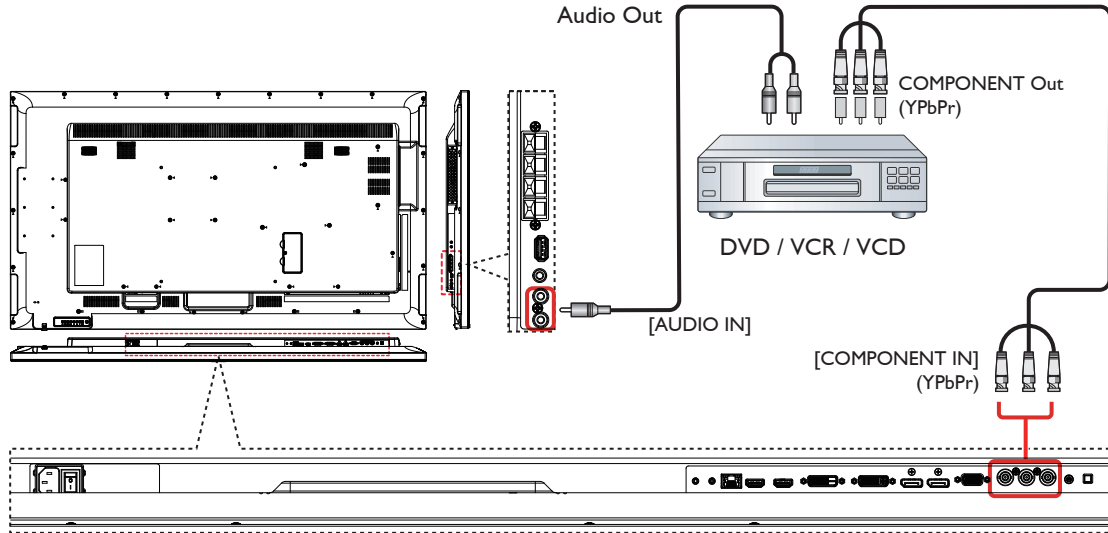
⚠ **NOTE:** The remote control may not function properly when the remote control sensor on the display is under direct sunlight or strong illumination, or when there is an obstacle in the path of signal transmission.



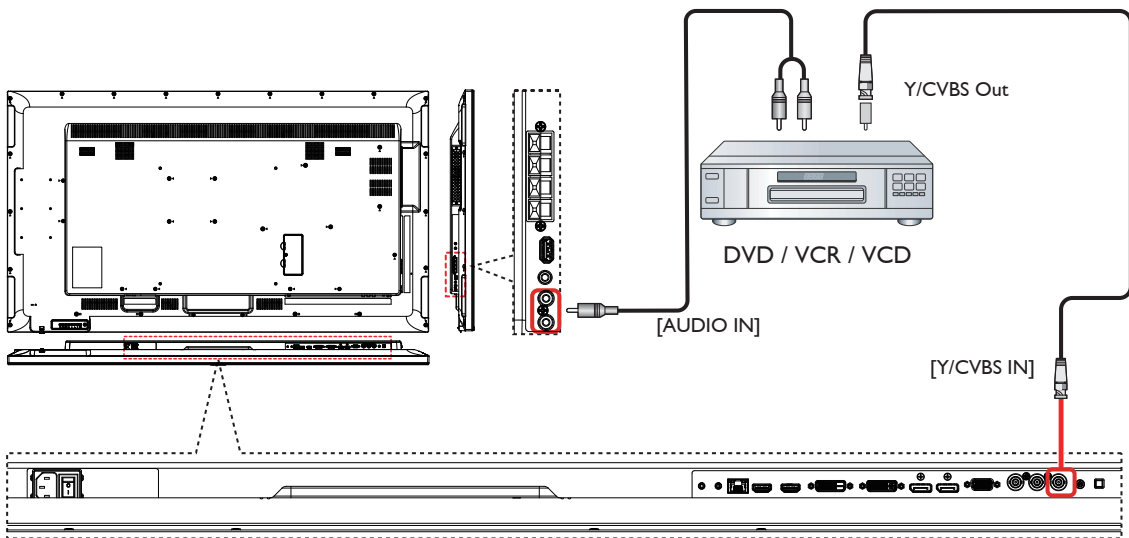
CHAPTER 3: CONNECTING EXTERNAL EQUIPMENT

3.1 Connecting External Equipment (DVD/VCR/VCD)

3.1.1 Using COMPONENT video input

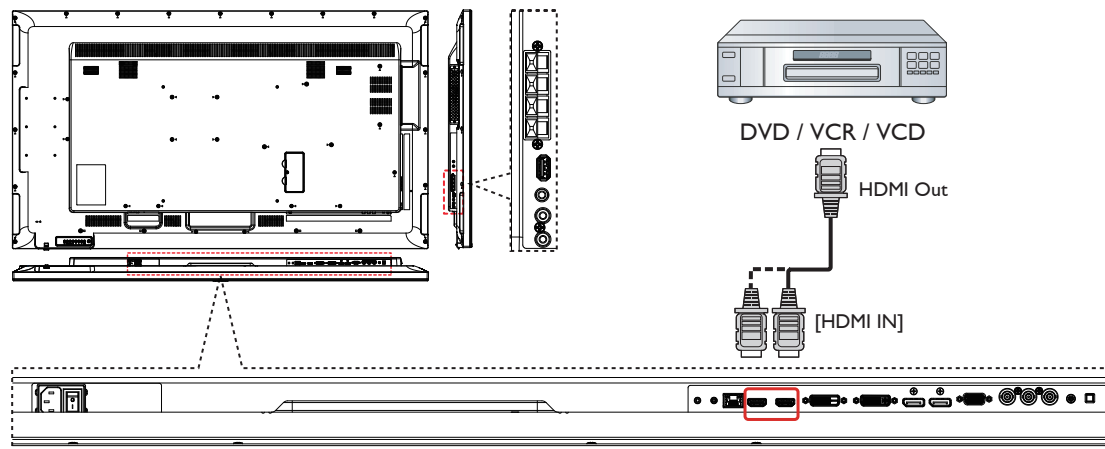


3.1.2 Using Video Source input



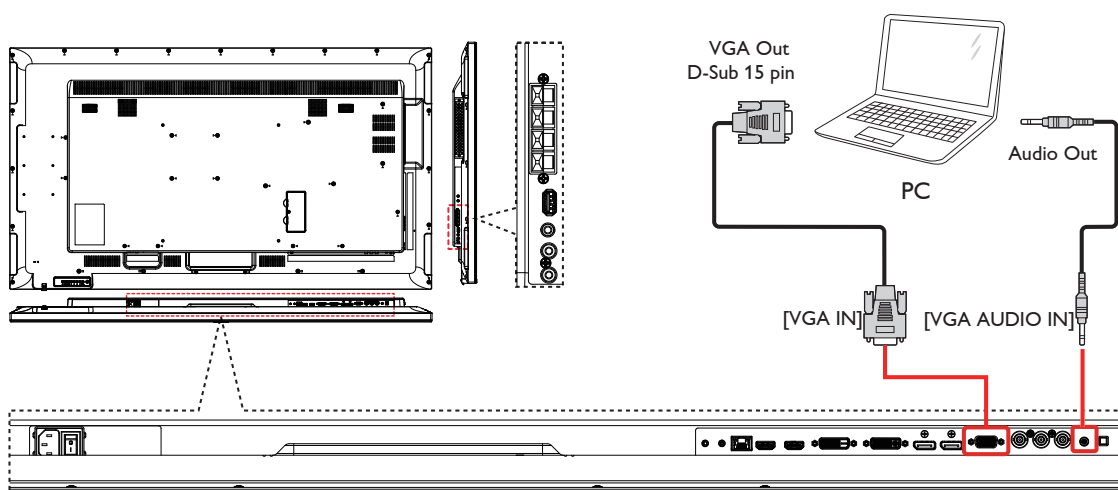
CONNECTING EXTERNAL EQUIPMENT

3.1.3 Using HDMI video input



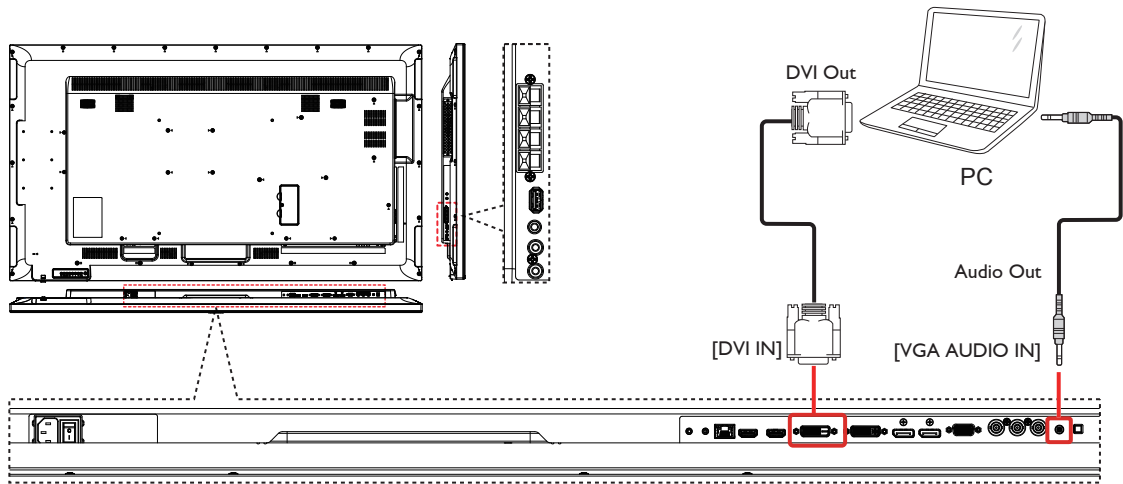
3.2 Connecting a PC

3.2.1 Using VGA input

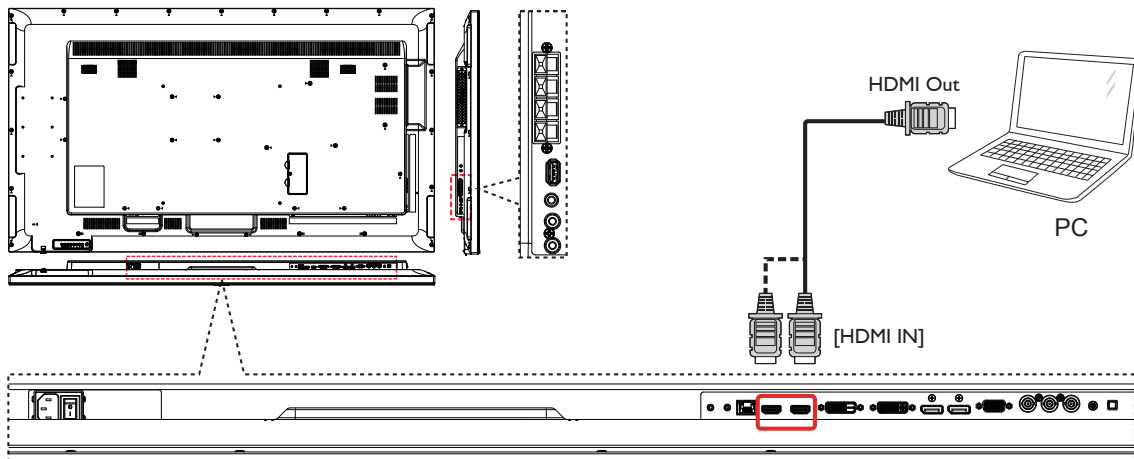


CONNECTING EXTERNAL EQUIPMENT

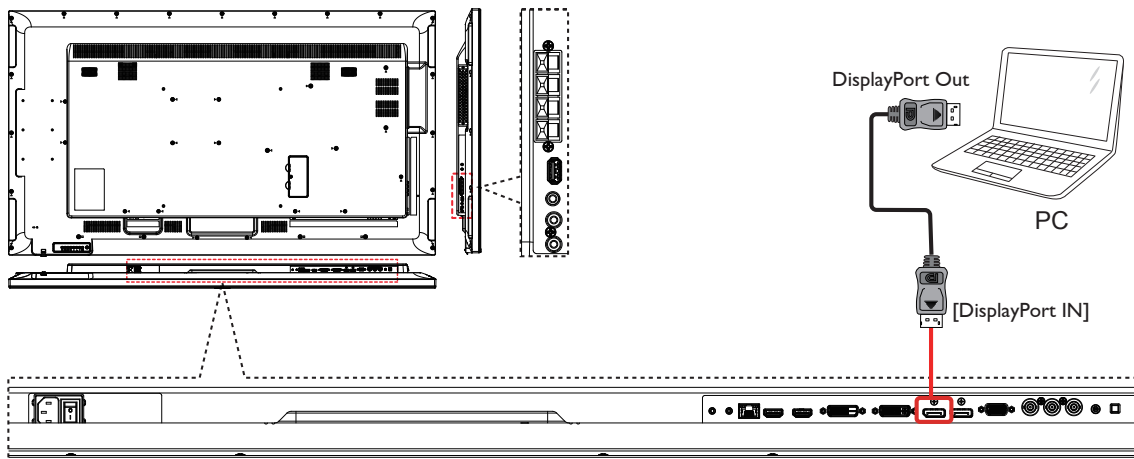
3.2.2 Using DVI input



3.2.3 Using HDMI input



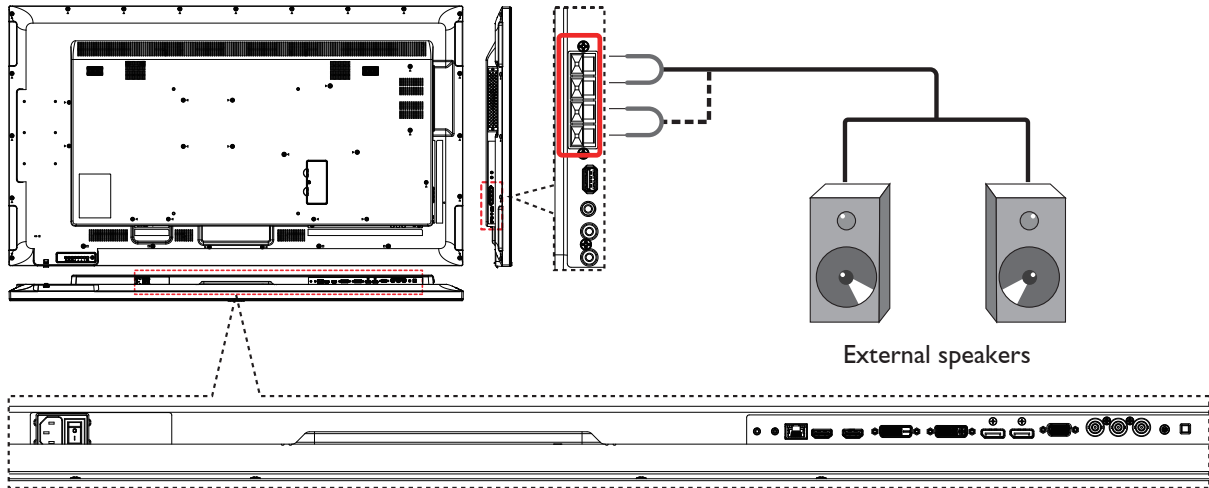
3.2.4 Using DisplayPort input



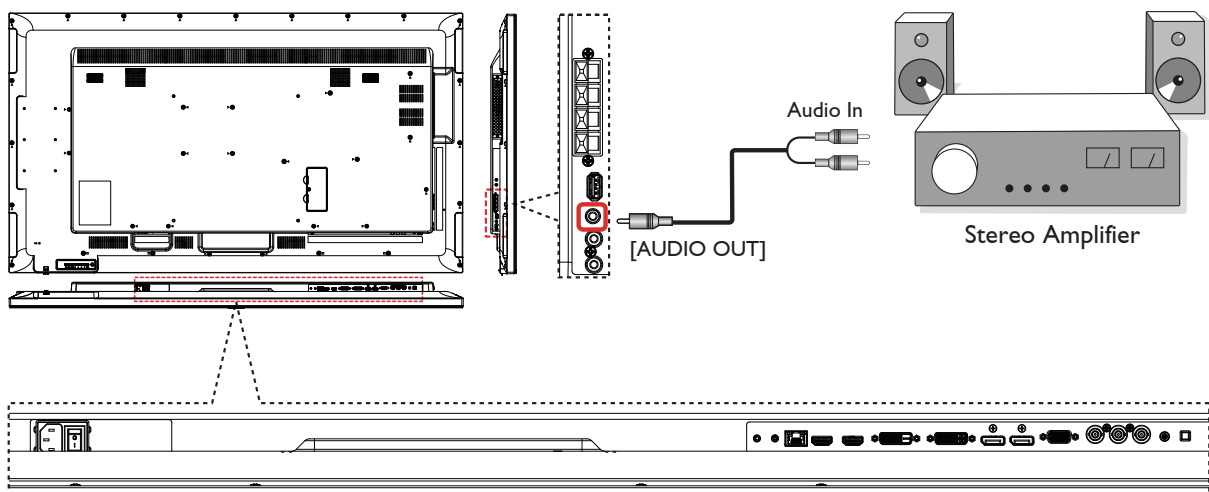
CONNECTING EXTERNAL EQUIPMENT

3.3 Connecting Audio Equipment

3.3.1 Connecting external speakers



3.3.2 Connecting an external audio device



3.4 Connecting Multiple Displays in a Daisy-chain Configuration

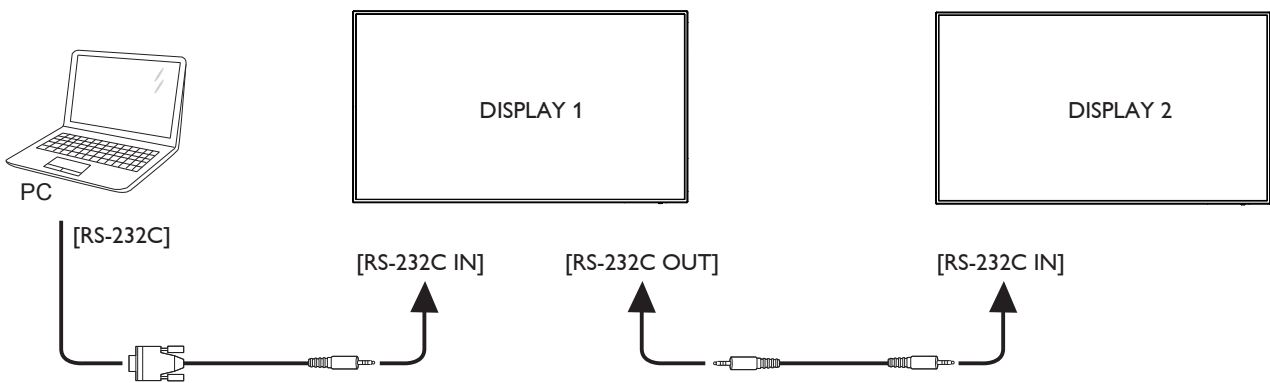
You can interconnect multiple displays to create a daisy-chain configuration for applications such as a video wall.

▲ NOTE: Maximum 25 displays (5x5) can be used in a daisy-chain configuration.

3.4.1 Display control connection

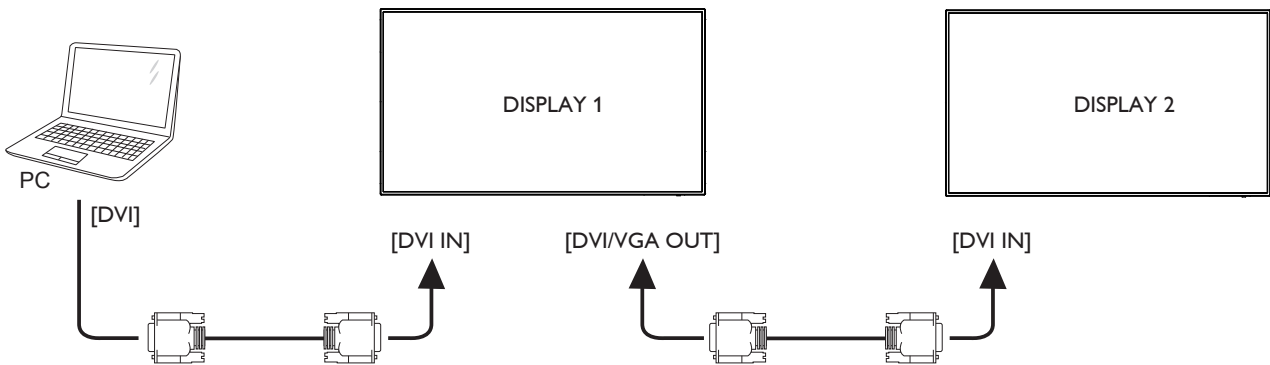
Connect the [RS232C OUT] connector of DISPLAY 1 to the [RS232C IN] connector of DISPLAY 2.

CONNECTING EXTERNAL EQUIPMENT

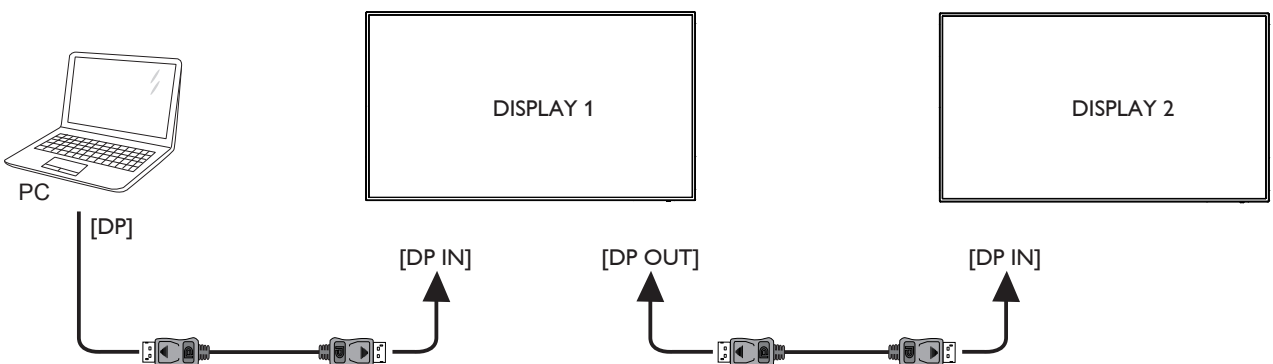


3.4.2 Digital video connection

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

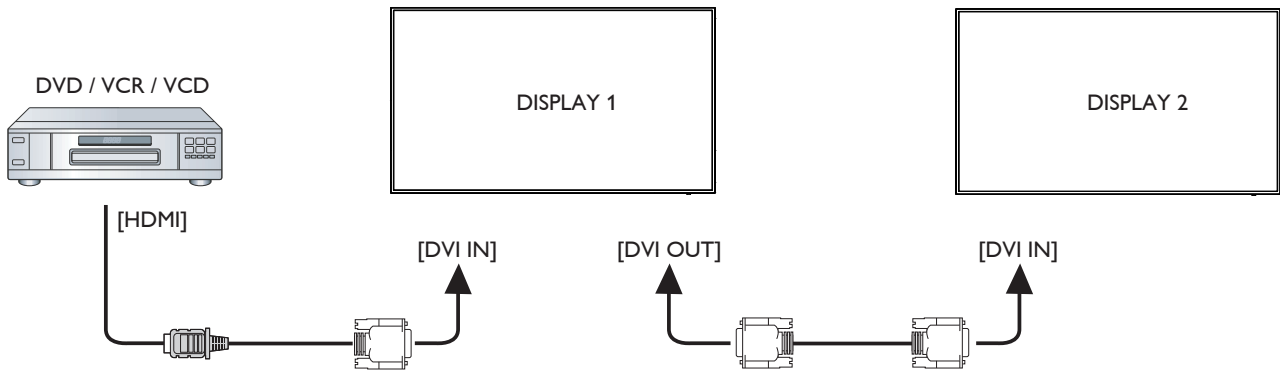


Connect the [DP OUT] connector of DISPLAY 1 to the [DP IN] connector of DISPLAY 2.



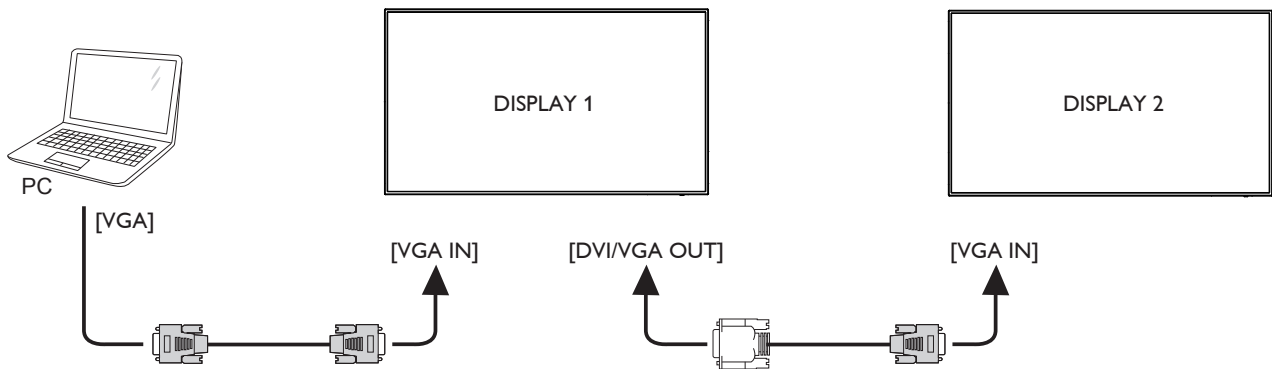
CONNECTING EXTERNAL EQUIPMENT

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

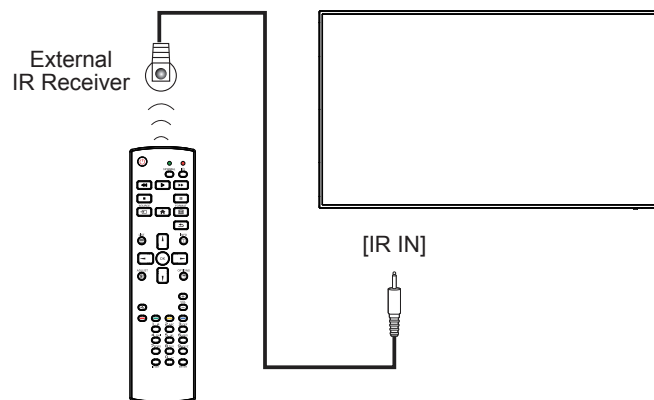


3.4.3 Analog video connection

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



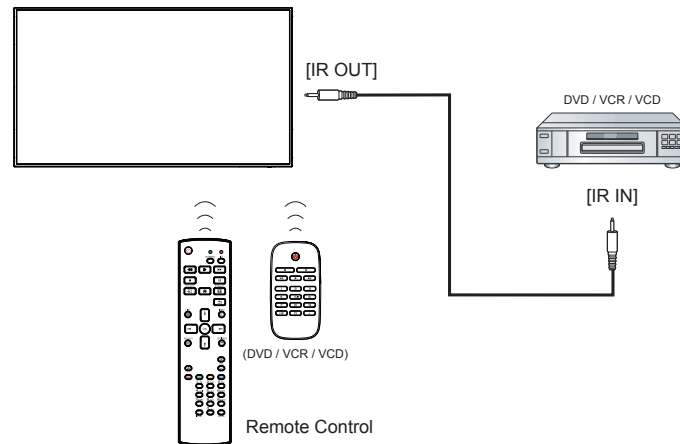
3.5 IR connection



⚠ NOTES: This display's remote control sensor will stop working if the [IR IN] is connected.

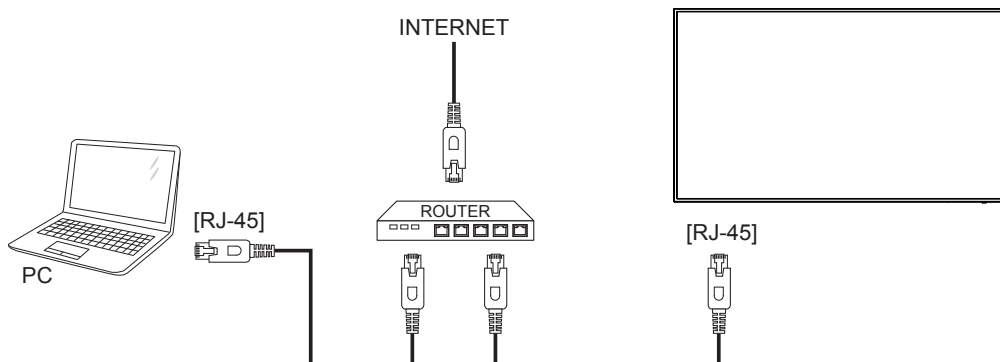
CONNECTING EXTERNAL EQUIPMENT

3.6 IR Pass-through Connection



3.7 Wire-connecting to Network

If you connect this display to a home network, you can play photos, music and videos from your computer. See Play multimedia files via Local Area Network (Page 24) for more detail.



To setup the network:

1. Switch on the router and switch on its DHCP setting.
2. Connect the router to this display with an Ethernet cable.
3. Press [HOME] button to display the OSD menu.
4. Press [UP] or [DOWN] button to select the menu item {Network setting}. Press OK button to enter its submenu.
5. Press [LEFT], [RIGHT], [LEFT], [RIGHT] or number button to adjust its value. Press OK button to confirm.

⚠ NOTES: Connecting with a shielded CAT-5 Ethernet cable to comply with the EMC directive.

CHAPTER 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 [] SOURCE button.
2. Press [] or [] button to choose 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.
2. Press [] or [] button to choose a picture format, then press [OK] button.
 - {Auto zoom}: Enlarge the picture to fill the screen. Recommended for minimal screen distortion but not for HD or PC.
 - {Movie expand 16:9}: Scale 4:3 format to 16:9. Not recommended for HD or PC.
 - {Wide screen}: Shows wide screen format content unstretched. Not recommended for HD or PC.
 - {Unscaled}: Provide maximum detail for PC. Only available when PC mode is selected in the {Picture} menu.
 - {4:3}: Display the classic 4:3 format.

4.3 Choose your Preferred Picture Settings

1. While this display is playing video source, press [] ADJUST button.
2. Press [] or [] button to choose **Picture style** , then press [OK] button.
3. Press [] or [] button to choose an option, then press [OK] button:
 - {Personal}: Apply your personalised picture settings.
 - {Vivid}: Rich and dynamic settings, ideal for daytime viewing.
 - {Natural}: Natural picture settings.
 - {Standard}: Default settings that suit most environments and types of video.
 - {Movie}: Ideal settings for movies.
 - {Photo}: Ideal settings for photos.
 - {Energy saving}: Settings that conserve the most energy.

4.4 Choose your Preferred Sound Settings

1. While this display is playing video source, press [] ADJUST button.
2. Press [] or [] button to choose **Sound style** , then press [OK] button.
3. Press [] or [] button to choose an option, then press [OK] button:
 - {Personal}: Apply your personalised sound settings.
 - {Original}: Settings that suit most environments and types of audio.
 - {Movie}: Ideal settings for movies.
 - {Music}: Ideal settings for listening to music.

OPERATION

- {Game}: Ideal settings for games.
- {News}: Ideal settings for spoken audio, such as the news.

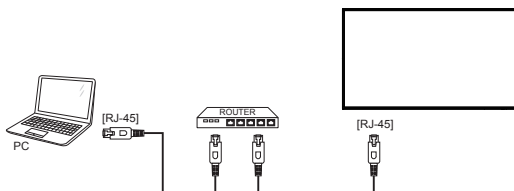
4.5 Play multimedia files via Local Area Network

To play files via Local Area Network, you will need:

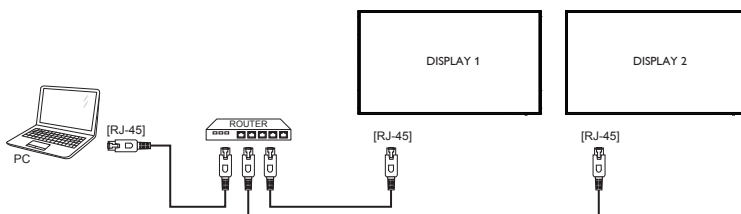
- A wired home network, connected with a Universal Plug and Play (uPnP) router.
- Optional: A LAN cable that connects your display to your home network.
- A media server running on your computer.
- Appropriate settings on your computer firewall to allow you to run the media server.

4.5.1 Set up the network

1. Connect your display and the computer to the same home network. See illustration below to connect your display to a network.
2. Switch on your computer and the router.
 - Single display setup:



- Multiple display setup:



⚠ NOTE: If the apparatus does not return to DLNA mode due to external electrical disturbances (e.g. electrostatic discharge), user intervention is required.

Set up media sharing

1. Install a media server on your computer to share media files. These are some media servers:
 - For PC: Windows Media Player 11 (or higher) or TVersity
 - For Mac: Twonky
2. Switch on media sharing on your computer using the media server. For more information on how to set up the media server, refer to the website of the media server.

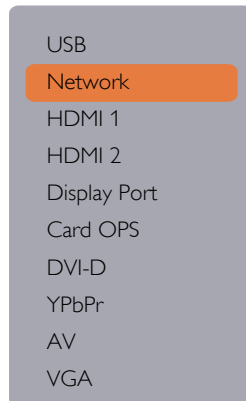
4.5.2 How to use DLNA-DMP

1. Please connect display and your PC to the same router via RJ-45.
2. Run windows media player. Set stream handling as public sharing.

OPERATION

Play files from display

1. Press SOURCE button, choose **network** and press [OK] button.

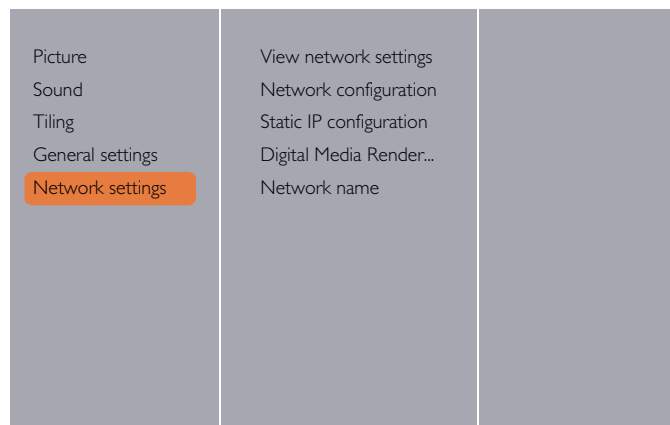


2. Now, you can see all the PC's connected to the same router on the screen. Choose the right one.
3. Press [↑] and [→] to choose the directory and files to play.
4. You can connect up to 4 displays to the same PC and play same media stream.

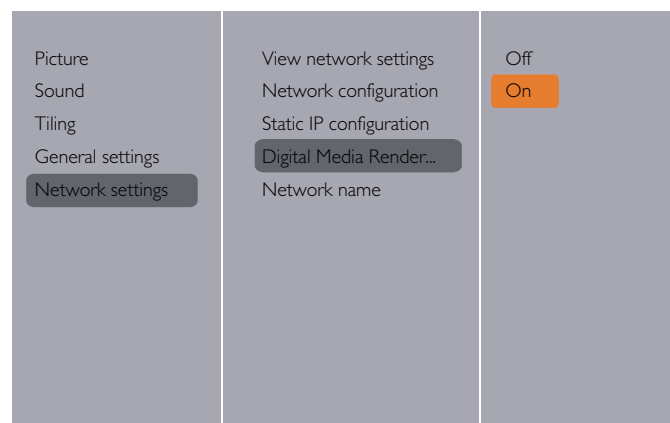
We suggest to use DLNA-DMP function via wired network for the sake of higher security and sufficient network bandwidth.

4.5.3 How to use DLNA-DMR from PC

1. Press [HOME] HOME button, Choose **Network Settings** and press [OK]

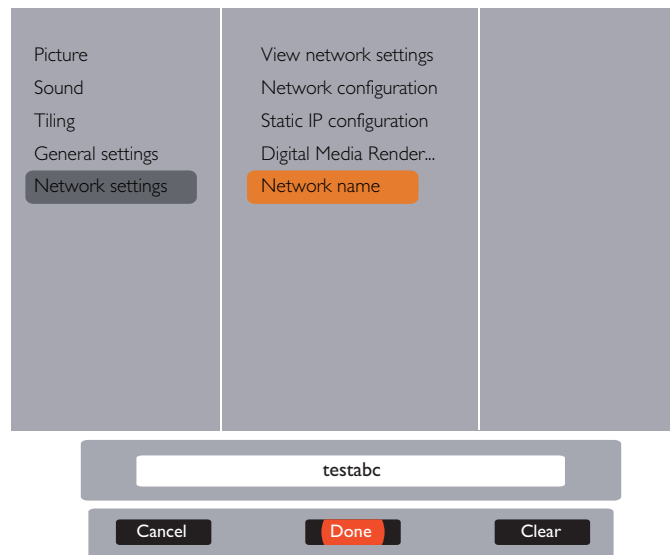


2. Set **DMR** as **ON**.



OPERATION

3. Set the name of your display.



4. Press SOURCE button, choose **network** and press [OK] button.
5. On your PC, go to **Network and Sharing Center**, and click **Choose homegroup and sharing options**.
6. Check the media formats. Then, click **Choose media streaming options.....**
7. Go to **Advanced sharing settings**, and check **Turn on network discovery**.
8. Now, go to the directory of your media files. Choose the media file by right click. On the submenu from **Play To**, You can find all displays connected to your network. Choose the display, and click the media file to play.

Play files

1. Press [SOURCE] SOURCE button.
2. Choose **Network**, and press [OK] button.
3. Choose a file from the content browser, and press [OK] button to start playing.
4. Press the [PLAY] buttons on the remote control to control playing.

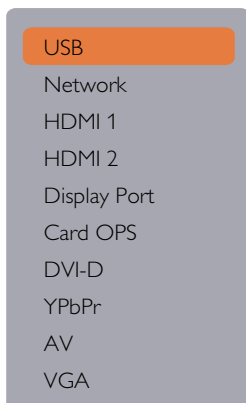
Tips:

- Choose the top bar to filter your files by type.
- Choose **Sort** to arrange the files by album name, artist, or other fields.
- To clear the list of offline media servers, press [OPTIONS] OPTIONS button. Then, choose **Clear offline servers** and press [OK] button.

OPERATION

4.6 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: **Music**, **Movie**, and **Photo**.
4. Press [BACK] button to go up to the top layer in the screen. Press [←] or [→] button to choose the file type. Press [OK] button to enter its play list.
5. Choose the file you want. Press [OK] button to start playing.
6. Follow the on-screen instruction to control the play option.
7. Press [PLAY] buttons (■ || ◀ ▶ ▶▶) to control playing.

4.7 Play options

4.7.1 Playing music files

1. Choose **Music** in the top bar. 
2. Choose one music track, and press [OK] button.
 - To play all the tracks in a folder, choose one music file. Then, press [▶▶▶] to **Play All**.
 - To skip to the next or previous track, press [▶] or [◀] button.
 - To pause the track, press [OK] button. Press [OK] button again to resume playback.
 - To skip backward or forward 10 seconds, press [←] or [→] button.
 - To search backward or forward, press [◀◀] or [▶▶] button, press repeatedly to toggle between different speeds.
 - To stop the music, press [■] button.

Music options



While you play music, press [OPTIONS] button, then press [OK] button to choose an option:

- {Shuffle}: Enable or disable random play of tracks.
- {Repeat}: Choose {Repeat} to play a track or an album repeatedly, or choose {Play once} to play a track once.

▲ NOTE: To view information about a song (for example, title, artist or duration), choose the song, then press [i] INFO button. To hide the information, press [i] INFO button again.

OPERATION

4.7.2 Playing movie files



1. Choose  **Movie** in the top bar. 
2. Choose a video, and press [OK] button.
 - To play all the videos in a folder, choose one video file. Then, press [▶] to **Play All**.
 - To pause the video, press [OK] button. Press [OK] button again to resume playback.
 - To skip backward or forward 10 seconds, press [◀] or [▶] button.
 - To search backward or forward, press [G] or [J] button, press repeatedly to toggle between different speeds.
 - To stop the video, press [H] button.

Movie options

While playing video, press [☰] OPTIONS button, then press [OK] button to choose an option:

- {Subtitles}: Choose the available subtitle settings.
- {Subtitle Language}: Choose the language for subtitles if available.
- {Shuffle}: Enable or disable random play of video files.
- {Repeat}: Choose {Repeat} to play the video file repeatedly or {Play once} to play the video file once.
- {Status}: To view information about a video (for example, played position, duration, title, or date).

4.7.3 Playing photo files

1. Choose  **Photo** in the top bar. 
2. Choose a photo thumbnail, then press [OK] button.

Start a slideshow

If there are multiple photos in a folder, choose a photo. Then, press [▶] to **Play All**.

- To skip to the previous or next photo, press [◀] or [▶] button, and then press [OK] button.
- To stop the slideshow, press [H] button.

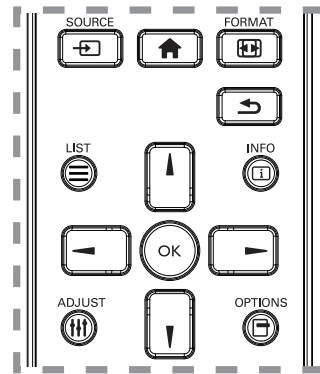
Slideshow options

While you play a slideshow, press [☰] OPTIONS button, then press [OK] button to choose an option:

- {Shuffle}: Enable or disable random display of pictures in the slideshow.
- {Repeat}: Choose {Repeat} to watch a slideshow repeatedly or {Play once} to watch once.
- {Slideshow Time}: Choose the displaying time for each photo in the slideshow.
- {Slideshow Transitions}: Choose the transition from one photo to the next.

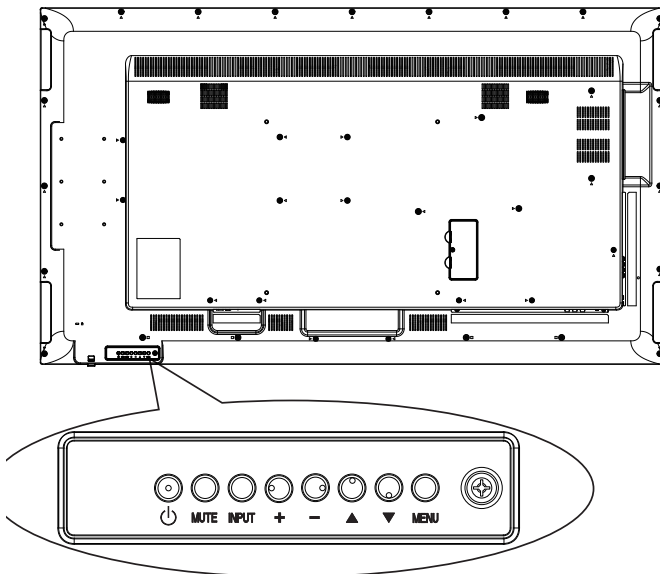
CHAPTER 5: CHANGE YOUR SETTINGS

Using the remote control:



1. Press [**HOME**] HOME button to display the OSD menu.
2. Press [**▲**] [**▼**] [**←**] or [**→**] button to choose **Picture, sound, Tiling, General Settings** or **Network settings**. Press [**OK**] button to enter.
3. Press [**▲**] [**▼**] [**←**] or [**→**] button to choose its menu item or to adjust its value. Press [**OK**] button to confirm.
4. Press [**BACK**] BACK button to go back to the previous menu layer.
5. Press [**HOME**] HOME button to exit the OSD menu.

Using the display's control buttons

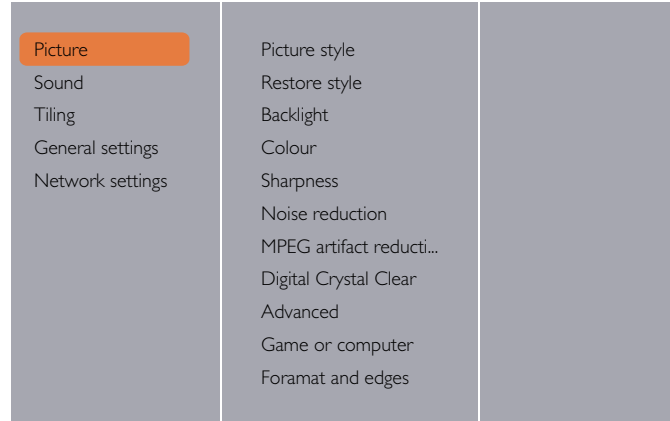


1. Press [**MENU**] button to display the OSD menu.
2. Press [**▲**] [**▼**] [**+**] or [**-**] button to choose menu item or adjust its value.
3. Press [**INPUT**] button to confirm menu selection and enter its submenu.
4. Press [**MENU**] button to exit the OSD menu.

CHANGE YOUR SETTINGS

5.1 Settings

5.1.1 Picture



Picture style

Choose a predefined picture setting.

Restore style

Restore the last-selected predefined picture setting.

Backlight

Adjust the brightness of this display's backlight.

The luminance setting by "backlight" for Energy Star verification.

Colour

Adjust the colour saturation of the picture.

Sharpness

Adjust the sharpness of the picture.

Noise reduction

Choose the amount of noise reduction for the picture.

MPEG artifact reduction

Smoothen transitions and haziness in the digital picture.

Digital Crystal Clear

Fine-tune each pixel to match surrounding pixels and produce a brilliant, high-definition image.

- {Advanced sharpness}: Enable superior sharpness, especially on lines and contours in the picture.
- {Dynamic contrast}: Dynamically enhance the details in the dark, medium and light areas of the picture.
- {Colour enhancement}: Dynamically enhance the vividness and details of colours

CHANGE YOUR SETTINGS

Advanced

Access advanced settings such as gamma, tint, video contrast and so on.

- {Gamma}: Adjust the non-linear setting for picture luminance and contrast.
- {Tint}: Change the colour balance.
- {Custom tint}: Customise colour balance setting. Only available if {Tint} → {Custom} is chosen.
- {Video contrast}: Adjust video contrast.
- {Brightness}: Adjust screen brightness.
- {Hue}: Adjust screen hue.

Game or computer

When viewing content from a connected game console, choose {Game} to apply game settings. When a computer is connected through HDMI, choose {Computer}.

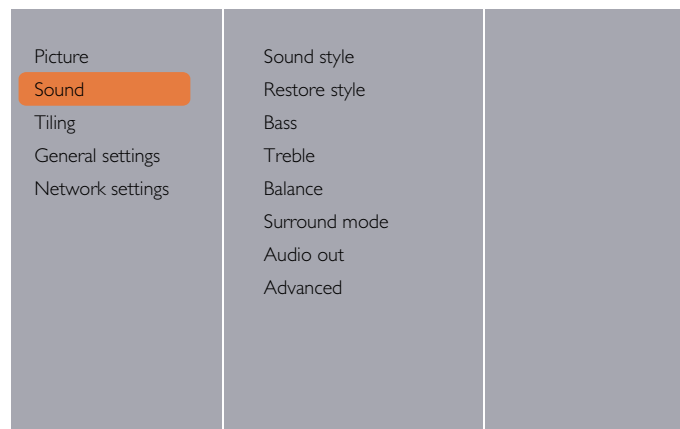
Make sure that {Format and edges} → {Picture format} → {Unscaled} is selected so as to view maximum detail.

Format and edges

- {Picture format}: Change the picture format.

See page 23 for the descriptions about **Picture format**.

5.1.2 Sound



Sound style

Access predefined sound settings.

Restore style

Restore the last-selected predefined sound setting.

Bass

Adjust to increase or decrease lower-pitched sounds.

Treble

Adjust to increase or decrease higher-pitched sounds.

Balance

Adjust to emphasize left or right audio output balance.

CHANGE YOUR SETTINGS

Surround mode

Enhance your audio experience.

Audio out

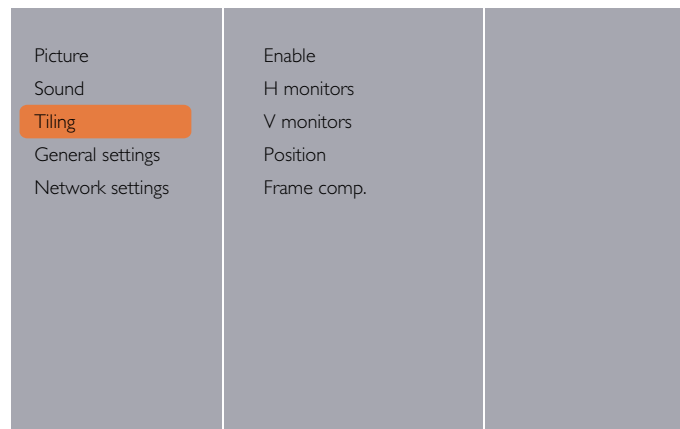
Adjust audio output volume.

Advanced

Access advanced settings to enhance your audio experience.

- {Auto volume leveling}: Enable the reduction of sudden volume changes.
- {Speaker settings}: Turn on or off the internal speakers.
- {Clear sound}: Enhance sound quality.

5.1.3 Tiling



With this function you can create a single large-screen matrix (video wall) that consists of up to 100 sets of this display (up to 10-sets on the vertical and 10-sets on the horizontal sides).

Enable

Choose to {On} or {Off} the Tiling function. If {On}, the display will apply the settings in {H monitors}, {V monitors}, {Position}, and {Frame comp.}.

H monitors

Adjust displays on the horizontal side.

V monitors

Adjust displays on the vertical side.

Position

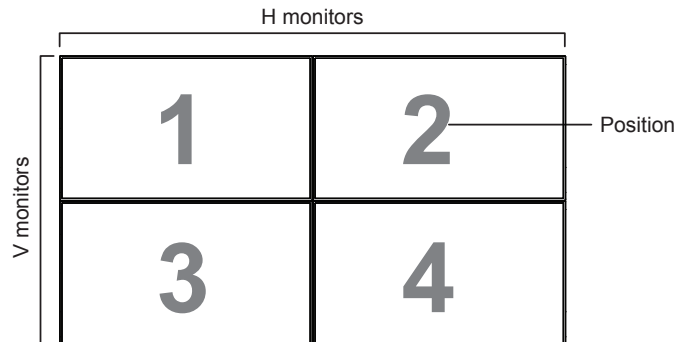
Adjust the position of this display in the screen matrix.

CHANGE YOUR SETTINGS

Example: 2 x 2 screen matrix (4 displays)

H monitors = 2 displays

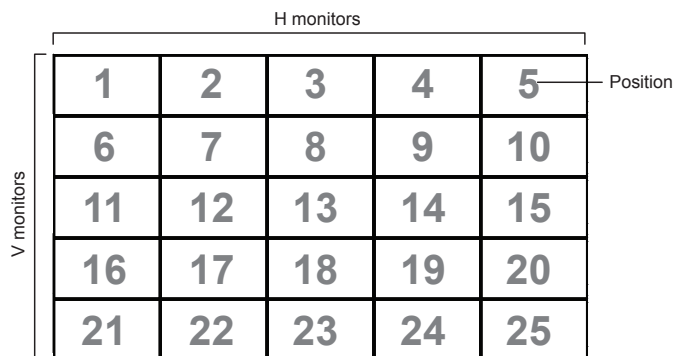
V monitors = 2 displays



Example: 5 x 5 screen matrix (25 displays)

H monitors = 5 displays

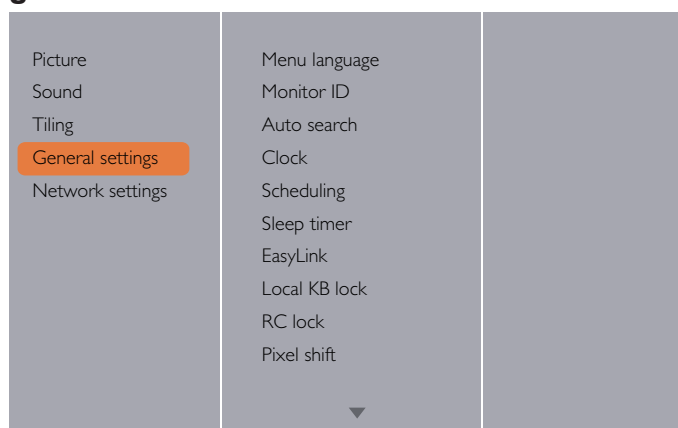
V monitors = 5 displays



Frame comp.

Choose to turn the frame compensation function on or off. If selected {On}, the display will adjust the image to compensate for the width of the display bezels in order to accurately display the image, and you can adjust { Frame comp.H} {Frame comp.V} to suit the display.

5.1.4 General settings



CHANGE YOUR SETTINGS

Menu language

Choose language used for OSD menus.

Monitor ID

Adjust 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 default setting is 1.

Auto search

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

Clock

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

Scheduling

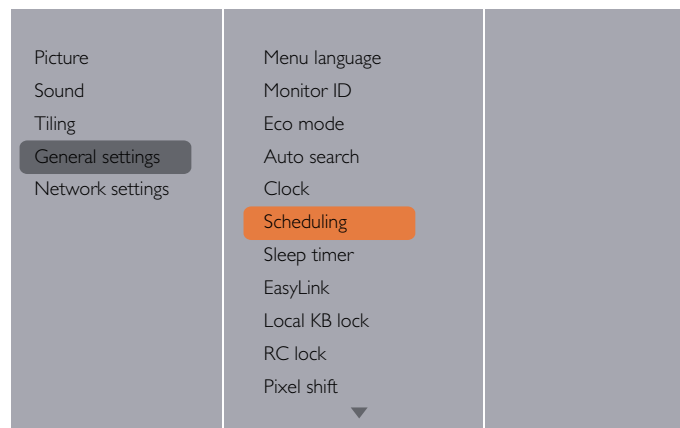
This function allows you to program up to 7 different scheduled time intervals for this display to activate.

You can set:

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

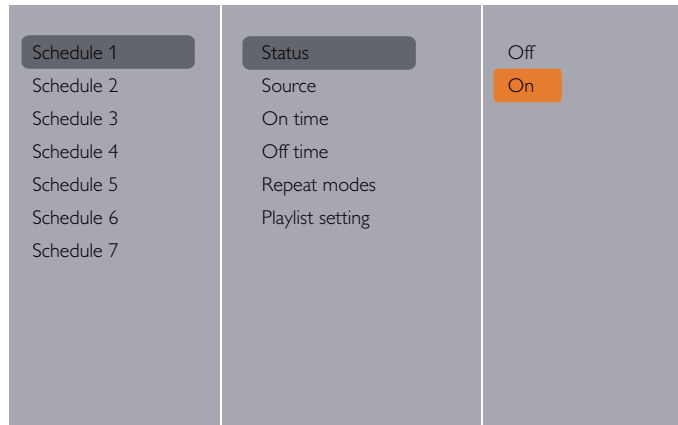
⚠ NOTE:

- We recommend you to set up current date and time in the {Clock} menu before using this function.
- After changing the {Clock} option in the {General settings} menu, you need to set this {Scheduling} again.

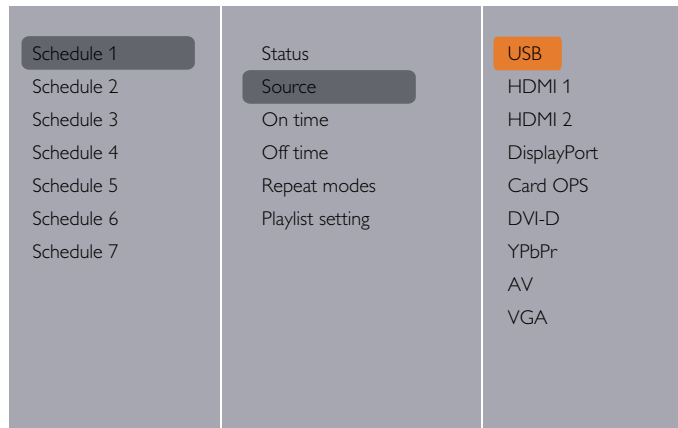


CHANGE YOUR SETTINGS

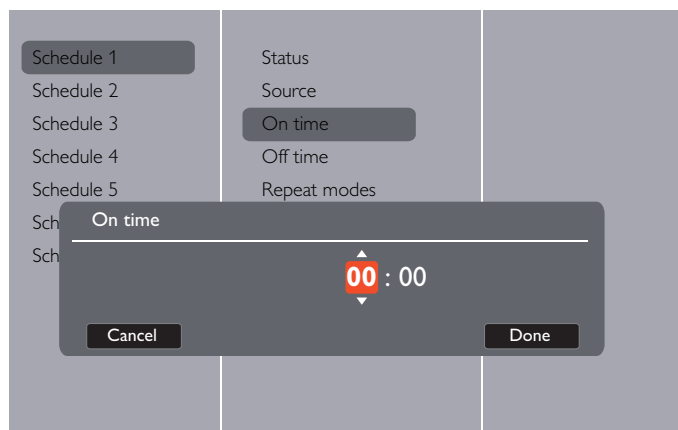
1. There are 7 schedule can be set. Go to **Status** and choose **On**.



2. Go to **Source** and choose input source. If {Source} → {USB} is chosen. You need to set playlist.

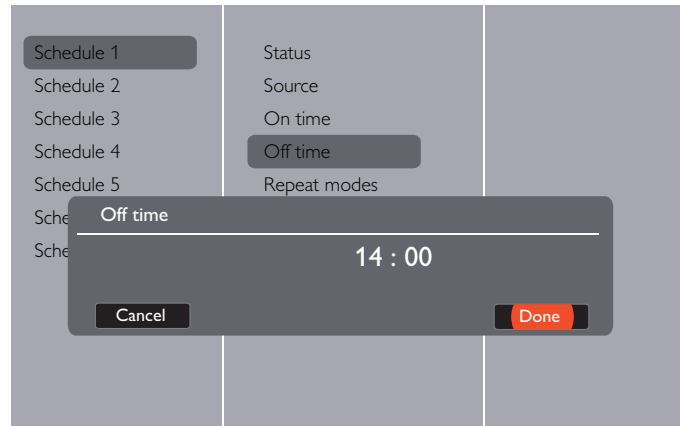


3. Set **On time**.

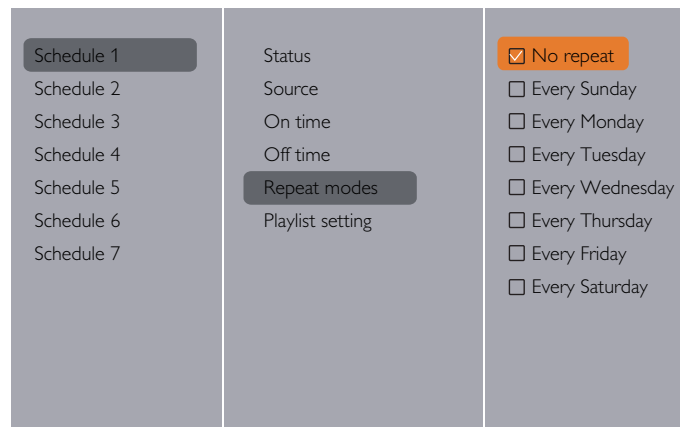


CHANGE YOUR SETTINGS

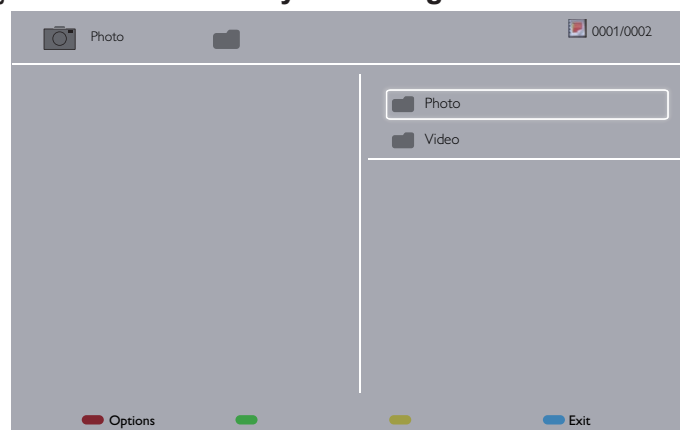
4. Set **Off time**.



5. Go to **Repeat modes** and choose.



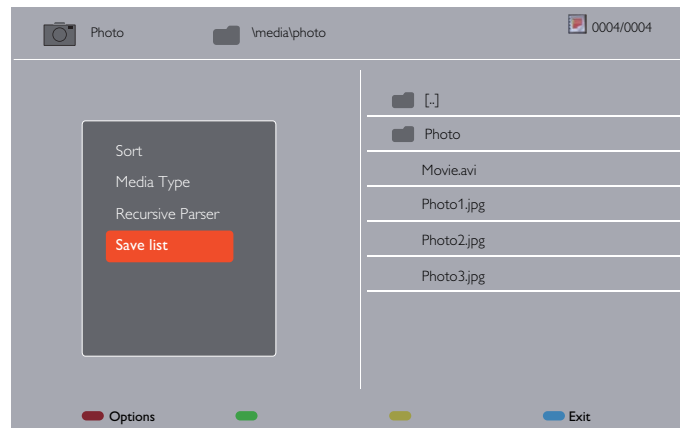
6. If {Source} → {USB} is chosen. Go to **Playlist setting**.



- Press [A] [M] buttons to choose files.
- Press [←] [→] buttons to switch Playlist and File Manager.
- Press [OK] button to set or clear the playlist.

CHANGE YOUR SETTINGS

7. To save the playlist, press [—] and choose **Save list**.



⚠ NOTE:

- Each Playlist supports up to 30 files.
- Playlist will not be cleared after {Factory settings}. You have to manually remove the files or delete usb_schedulinglist.txt in the USB.

Sleep timer

Switch off this display after a specified time.

EasyLink

Connect and control your HDMI-CEC compliant devices through HDMI port to this display with the same remote control.

Auto adjust

Use this function to automatically optimize the display of VGA input image.

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

Local KB lock

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

- {Unlock}: Enable the keyboard function.
- {Lock all}: Lock all keyboard function.
- {Lock but volume}: Disable all the keyboard function except the [—] and [+] button.
- {Lock but power}: Disable all the keyboard function except the [⏻] button.
- {Lock all except volume and power}: Disable all the keyboard function except the [—], [+] and [⏻] button:

RC lock

Choose to enable or disable the button function of the remote control.

- {Unlock}: Enable the keyboard function.
- {Lock all}: Lock all keyboard function.
- {Lock but volume}: Disable all the keyboard function except the [—] and [+] button.
- {Lock but power}: Disable all the keyboard function except the [⏻] POWER button.

CHANGE YOUR SETTINGS

- {Lock all expect volume and power}: Disable all the keyboard function except the [←] [→] and [⏻] POWER button:

⚠ NOTE:

To disable the lock function from **Local KB lock** or **-RC lock** item, press buttons [⬆] and **1 9 9 8** on the remote control.

ANTI-BURN-IN

For video input sources, you may choose {On} to move the screen image automatically to protect the display from “burn-in” or “after-image” symptoms 30 seconds after not operating the display.

Smart power

Choose a backlight level to optimise dynamic power consumption and picture contrast.

The options are: {Off}, {Standard}, {Best Power}, {Best Picture}.

Wake on lan

Choose {On} and you can turn on the display by network.

Switch on state

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

- {On} - The display will turn on when the power cord is connected to a wall outlet.
- {Standby} - The display will remain Standby 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.

LED

Choose {Off} to turn off the indicator.

Switch on delay

Adjust the power-on delaying time (in seconds) allows a sequential powering-on for each display by their ID number when multiple displays are connected.

Logo

If selected {On} ,when the display Switch on,it will show the logo first.

APM

Choose {On}. Then, when no signal, the display will automatically turn off.

Information OSD

When you press [⏻] POWER button to turn on the display from standby mode or change the input signal, the information OSD is displayed on the upper left corner of the screen.

Choose {Off} to turn off this function.

DisplayPort Ver.:

Set the DisplayPort version to 1.1a or 1.2, this setting is only valid on DisplayPort input and output,

1.1a: Switch DisplayPort Ver. to 1.1a(default), the DisplayPort output is the clone of the DisplayPort input.

1.2: Switch DisplayPort Ver. to 1.2 to support MST(Multi-Stream Transport)

CHANGE YOUR SETTINGS

⚠ NOTE:

If the display is black screen or abnormal under DisplayPort source, please switch to 1.1a and turn AC off and on.

Network control port

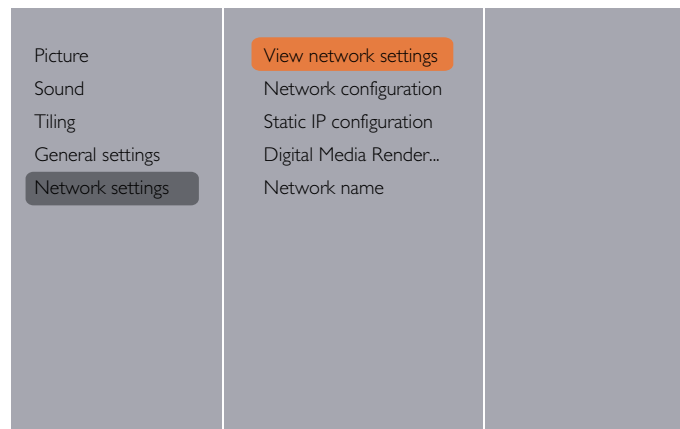
Choose the RS232 control form Card OPS or embedded RS232.

Factory settings

Reset all your customized settings to the factory defaults.

5.2 Network Settings

1. Press [🏠] HOME button, choose **Network Settings** and press [OK] button.



View network settings

View connected network status.

Network Configuration

{Network configuration}: Choose how this display should assign addresses to the network resources.

The user can choose {DHCP & Auto IP} (suggested) or {Static IP}.

Static IP Configuration

Define {IP address}, {Netmask}, {Gateway}, {DNS1}, and {DNS2} for this display. If {Network settings} → {Static IP} is chosen.

Digital Media Renderer - DMR

Receive multimedia files from the connected device by your network.

Network name

In the multiple-display connection, you can rename each display for easy identification.

Use the on-screen keyboard or the remote control keypad to enter the name.

CHAPTER 6: USB DEVICE COMPATIBILITY

6.1 USB device compatibility

USB Video Subtitle Formats (for language subtitles, etc.)

File Extensions	Container	Video codec	Maximum resolution	Max.Frame Rate (fps)	Max.Bit Rate (Mbps)	Audio codec
.mpg mpeg .vob	PS	MPEG-1	1920x1080	25p,30p,50i,60i	30	MPEG-1(L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC(v1&v2),
		MPEG-2	1920x1080	25p,30p,50i,60i	30	
		H.264	1920x1080	25p,30p,50p,60p,60i	30	
.ts	TS	MPEG-2	1920x1080	25p,30p,50i,60i	30	MPEG-1(L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), AC3,E-AC3, Dolby Pulse
		H.264	1920x1080	25p,30p,50p,60p,60i	30	
.mp4	MP4	MPEG-4 ASP	1920x1080	25p,30p,50i,60i	30	AAC/HE-AAC(v1&v2),
		H.264	1920x1080		30	
.mkv .mk3d	MKV	MPEG-4 ASP	1920x1080	25p,30p,50i,60i	30	MPEG-1(L1&L2), MPEG-1,2,2.5 L3, AC3,E-AC3, WMA,
		H.264	1920x1080		30	

USB Multimedia Formats

File Extensions	Container	Video codec	Maximum resolution	Frequency (kHz)	Max.Bit Rate (Mbps)	Audio codec
.mp3	MP3	-	-	32	384	MPEG-1,2,2.5 L3
.wma .asf	WMA	-	-	32	192	WMA
	(V2 up to V9.2)	-	-	44.1		
.wma	WMA Pro	-	-	96	768	WMA,WMA Pro
.wav(PC)	LPCM	-	-	192	768	LPCM
.aif(mac) .aiff(mac)	LPCM	-	-	192	768	LPCM
.aac .mp4 .m4a	AAC	-	-	48	1024	AAC,HE-AAC(v1&v2)
.pls .m3u	Playlists	-	-	-	-	-
.m4a	M4A	-	-	48	1024	AAC,HE-AAC(v1&v2)

▲ NOTE:

- 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.

CHAPTER 7: INPUT MODE

VGA Resolution:

Standard Resolution	Active Resolution		Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode
	H Pixels	V Lines				
VGA	640	480	60 Hz	25.175 MHz	4:3	Video Graphic Array
			72 Hz	31.5 MHz		
			75 Hz	31.5 MHz		
WVGA	720	400	70 Hz	33.75 MHz	16:9	Wide Video Graphic Array
SVGA	800	600	60 Hz	40 MHz	4:3	Super VGA
			75 Hz	49.5 MHz		
XGA	1024	768	60 Hz	65 MHz	4:3	Extended Graphic Array
			75 Hz	78.75 MHz		
WXGA	1280	768	60 Hz	79.5 MHz	5:3	Wide XGA
WXGA	1280	800	60 Hz	79.5 MHz	16:10	Wide XGA
SXGA	1280	960	60 Hz	108 MHz	4:3	Super XGA
SXGA	1280	1024	60 Hz	108 MHz	5:4	Super XGA
WXGA	1360	768	60 Hz	85.5 MHz	16:9	Wide XGA
WXGA	1366	768	60 Hz	85.5 MHz	16:9	Wide XGA
UXGA	1600	1200	60 Hz	162 MHz	4:3	Ultra XGA
HD1080	1920	1080	60 Hz	148.5 MHz	16:9	HD1080

SDTV Resolution:

Standard Resolution	Active Resolution		Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode
	H Pixels	V Lines				
480i	720	480	29.97 Hz	13.5 MHz	4:3	Modified NTSC Standard
480p			59.94 Hz	27 MHz		
576i	720	576	25 Hz	13.5 MHz	4:3	Modified PAL Standard
576p			50 Hz	27 MHz		

HDTV Resolution:

Standard Resolution	Active Resolution		Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode
	H Pixels	V Lines				
720p	1280	720	50 Hz	74.25 MHz	16:9	Normally DVB Mode
			60 Hz			
1080i	1920	1080	25 Hz	74.25 MHz	16:9	Normally ATSC Mode
			30 Hz			
1080p	1920	1080	50 Hz	148.5 MHz	16:9	Normally ATSC Mode
			60 Hz			

- The PC text quality is optimum in HD 1080 mode (1920 x 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.

INPUT MODE

- 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.

CHAPTER 8: TROUBLESHOOTING

8.1 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 standby mode. 	<ol style="list-style-type: none"> 1. Plug in the power cord. 2. Make sure the power switch is switched on. 3. Connect a signal connection to the display.
Interference displayed on the display or 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	Improperly connected source signal cable.	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. Improperly connected source signal cable. 2. Volume is turned all the way down. 3. {Mute} is turned on. 4. No external speaker connected. 	<ol style="list-style-type: none"> 1. Make sure that both video inputs and sound inputs are correctly connected. 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 may not turn on.	This display is manufactured 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.

CHAPTER 9 TECHNICAL SPECIFICATIONS

Display	PM-65P
Screen Size (Active Area)	1428.48 (H)x 803.52 (V) [mm](64.5" diagonal)
Aspect Ratio	16:9
Number of pixels	1920 (H) x 1080 (V)
Pixel pitch	0.744 (H) x 0.744 (V) [mm]
Displayable colors	16.7M colors
Brightness (typical)	350 cd/m ²
Contrast ratio (typical)	4000:1
Viewing angle	178 degrees

In/Out Terminals	PM-65P	
Speaker Output	Internal Speakers	10W (L) + 10W (R) [RMS]/8Ω
	External Speakers	1 Way 1 Speaker System 82 dB/W/M/160 Hz ~ 13 KHz
Audio Output	3.5mm phone jack x 1	0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	RCA Jack x 2	0.5V [rms] (Normal) / 2 Channel (L+R)
	3.5mm phone jack x 1	
RS232C	2.5mm Phone jack x 2	RS232C in/RS232C out
RJ-45	RJ-45 Jack x 1 (8 pin)	10/100 LAN Port
HDMI Input	HDMI Jack x 2 (Type A) (19 pin)	Digital RGB: TMDS (Video + Audio)
		MAX: Video - 720p, 1080p, 1920 x 1080/60 Hz (WUXGA) Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
DVI-D Input	DVI-D jack	Digital RGB: TMDS (Video)
VGA Input	D-Sub Jack x 1 (15 pin)	Analog RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: 1V [p-p] (75Ω)
		MAX: 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
DVI-I (DVI-D & VGA) Output	DVI-I Jack x 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 x 1080/60 Hz (WUXGA)
Component Input	BNC Jack x 3	Y: 1V [p-p] (75Ω), Pb: 0.7V [p-p] (75Ω), Pr: 0.7V [p-p] (75Ω)
		MAX: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
Video Input	BNC x 1 (Share with Component_Y)	Composite 1V [p-p] (75Ω)
Displayport in/out	Displayport Jack x 2 (20 pin)	Digital RGB: TMDS (Video + Audio)
		MAX: Video - 720p, 1080p, 1920 x 1080/60 Hz (WUXGA) Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only

TECHNICAL SPECIFICATIONS

General	PM-65P
Power Input	100 - 240V~, 50 - 60Hz, 5.5A
Power Output	100 - 240V~, 50 - 60Hz, 2.5A
Power Consumption (Max)	313 W
Power Consumption (typ.)	176 W
Power Consumption (Standby & Off)	<0.5 W (RS232 in active)
Dimensions (Without Stand) [W x H x D]	1458.7 x 834.7 x 81.6 mm
Weight (Without Stand)	24.8 Kg
Gross Weight (Without Stand)	39.3 Kg

Product Fiche	PM-65P
Energy Efficiency Class	B
Visible Screen Size	163.9 cm / 64.5 inch
On Mode Power Consumption (W)	186 W
Annual Energy Consumption (kWh)	272 kWh
Standby Power Consumption (W)	0.50 W
Off Mode Power Consumption (W)	0.50 W
Display Resolution (Pixels)	1920 x 1080p
Network Standby (W)	16W

Environmental Condition	PM-65P	
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

Internal Speaker	PM-65P
Type	1 Way 1 Speaker
Input	10 W (RMS)
Impedance	8Ω
Output Sound Pressure	82 dB/W/M
Frequency Response	160 Hz ~ 13 KHz

▲ NOTE: All specifications are subject to change without prior notice.

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