AG neovo

THE DISPLAY CHOICE
OF PROFESSIONALS™

PN-46D LED-Backlit Display

User Manual

displays.agneovo.com

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SAFETY INFORMATION

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

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

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

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 CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

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.

SAFETY 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 bezzakłóceniowego źródła zasilania.
* Należy upewnić się, aby nic nie leżało na kablach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.
* Nie należy rozlewać napojów ani innych płynów na system komputerowy.
* Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych.
* System komputerowy powinien znajdować się z dala od grzejników i źródeł ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia luźnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

Electric, Magnetic and Electromagnetic Fields ("EMF")

* 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.

* 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.

* We are committed to develop, produce and market products that cause no adverse health effects.
* We confirm that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
* 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.

SAFETY INFORMATION

Information for U.K. only

WARNING - THIS APPLIANCE MUST BE EARTHED.
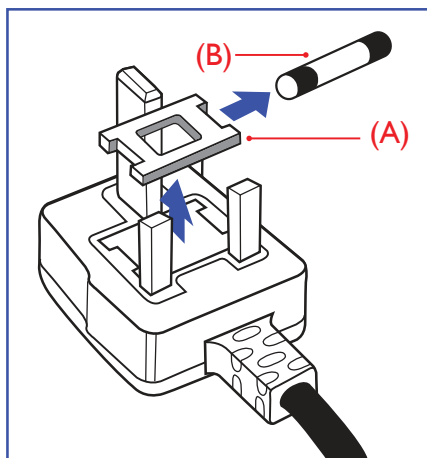
Important:

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.

SAFETY INFORMATION
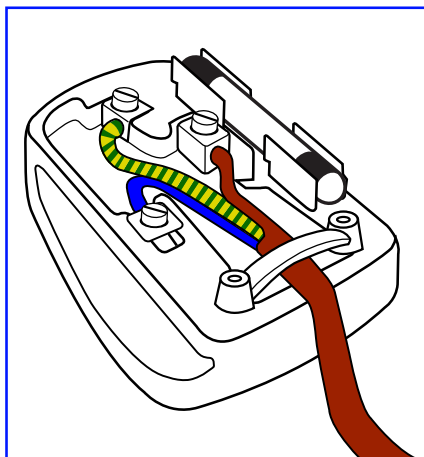
How to connect a plug

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

    BLUE - "NEUTRAL" ("N")

    BROWN - "LIVE" ("L")

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

- 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.

- The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.

- The BROWN wire must be connected to the terminal which marked with the letter "L" or coloured RED.

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

North Europe (Nordic Countries) Information

Placering/Ventilation

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

Placering/Ventilation

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

Paikka/Ilmankierto

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

Plassering/Ventilasjon

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

SAFETY INFORMATION

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).

Waste Electrical and Electronie Equipment-WEEE

Attention users in European Union private households
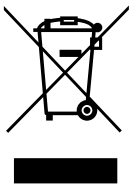
This marking on the product or on its packaging illustrates that, under European Directive 2012/19/EU governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

Attention users in United States:

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

End of Life Directives-Recycling

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

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

PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

Symbols used in this manual

⚠	This icon indicates the existence of a potential hazard that could result in personal injury or damage to the product.
⚠	This icon indicates important operating and servicing information.

Notice

- Read this User Manual carefully before using the LCD display and keep it for future reference.

- The product specifications and other information provided in this User Manual are for reference only. All information is subject to change without notice. Updated content can be downloaded from our web site at **displays.agneovo.com**.

- To register online, go to **displays.agneovo.com**.

- To protect your rights as a consumer, do not remove any stickers from the LCD display. Doing so may affect the determination of the warranty period.

Cautions When Setting Up

- Do not place the LCD display near heat sources, such as a heater, exhaust vent, or in direct sunlight.

- Do not cover or block the ventilation holes in the housing.

- Place the LCD display on a stable area. Do not place the LCD display where it may subject to vibration or shock.

- Place the LCD display in a well-ventilated area.

- Do not place the LCD display outdoors.

- 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.

- Do not spill liquid or insert sharp objects into the LCD display through the ventilation holes. Doing so may cause accidental fire, electric shock or damage the LCD display.

PRECAUTIONS

Cautions When Using

- Use only the power cord supplied with the LCD display.

- The power outlet should be installed near the LCD display and be easily accessible.

- If an extension cord is used with the LCD display, ensure that the total current consumption plugged into the power outlet does not exceed the ampere rating.

- Do not allow anything to rest on the power cord. Do not place the LCD display where the power cord may be stepped on.

- If the LCD display will not be used for an indefinite period of time, unplug the power cord from the power outlet.

- To disconnect the power cord, grasp and pull by the plug head. Do not tug on the cord; doing so may cause fire or electric shock.

- Do not unplug or touch the power cord with wet hands.

- When turning off the display by detaching the power cord, wait 6 seconds before re-attaching the power cord for normal operation.

- Do not knock or drop the display during operation or transportation.

Cleaning and 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 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.

- 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.

- 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

Warning:

Unplug the power cord from the power outlet and refer to qualified service personnel under the following conditions:

- When the power cord is damaged.

- If the LCD display has been dropped or the housing has been damaged.

- If the LCD display emits smoke or a distinct odor.

PRECAUTIONS

Notice for the LCD Display

- In order to maintain the stable luminous performance, it is recommended to use low brightness setting.

- Due to the lifespan of the lamp, it is normal that the brightness quality of the LCD display may decrease with time.

- When static images are displayed for long periods of time, the image may cause an imprint on the LCD display. This is called image retention or burn-in.

  ♦ To prevent image retention, do any of the following:

    - Set the LCD display to turn off after a few minutes of being idle.
    - Use a screen saver that has moving graphics or a blank white image.
    - Execute the ANTI-BURN-IN function of the LCD display. See "Configuration3 Settings, SCREEN SAVER > ANTI-BURN-IN" section.
    - Switch desktop backgrounds regularly.
    - Adjust the LCD display to low brightness settings.
    - Turn off the LCD display when the system is not in use.

  ♦ Things to do when the LCD display shows image retention:

    - Turn off the LCD display for extended periods of time. It can be several hours or several days.
    - Use a screen saver and run it for extended periods of time.
    - Use a black and white image and run it for extended periods of time.

- There are millions of micro transistors inside the LCD display. It is normal for a few transistors to be damaged and to produce spots. This is acceptable and is not considered a failure.

- **IMPORTANT**: Always activate a moving screen saver program when you leave your display unattended. Always activate a periodic screen refresh application if the unit will display unchanging static content. Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging" or "ghost imaging", on your screen. This is a well-known phenomenon in LCD panel technology. In most cases, the "burned in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.

- **WARNING**: Severe "burn-in" or "after-image" or "ghost image" symptoms will not disappear and cannot be repaired. This is also not covered under the terms of your warranty.
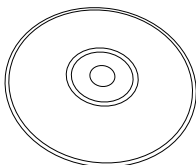
CHAPTER 1: PRODUCT DESCRIPTION

1.1 Package Contents

When unpacking, check if the following items are included in the package. If any of them is missing or damaged, contact your dealer.
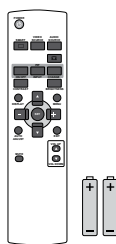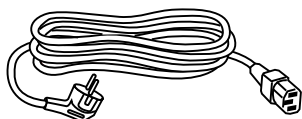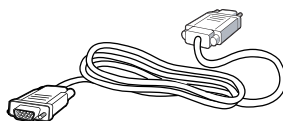
☐ **LCD Display**
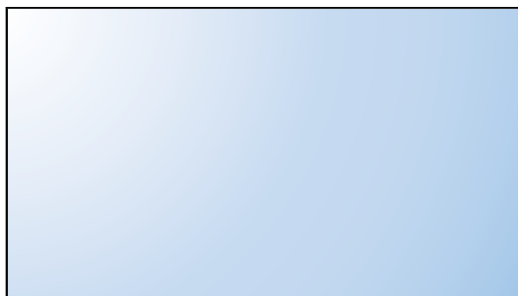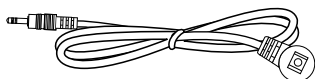
☐ **User Manual**

☐ **Remote control**

☐ **Power cord**

☐ **Video signal cable**
(D-SUB to D-SUB cable)

☐ **IR sensor cable**

☐ **Power switch cover and screw (M3x8) x1**
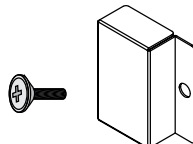
PRODUCT DESCRIPTION

1.2 Preparing for the Installation

- 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.

- The product can normally operate only under 5000m in altitude. In installations at altitudes above 3000m, some abnormalities may be experienced.

1.3 Installing and Removing Table Stands (optional)

To install table stands:

1   Ensure your display is powered off.

2   Spread a protective sheet on a flat surface.

3   Grab the carrying handles and place the display face-down on the protective sheet.

4   After inserting the stand in the guide block, tighten the screws on both sides of the display.

Carrying handle

Thumbscrews

Longer portions face to front
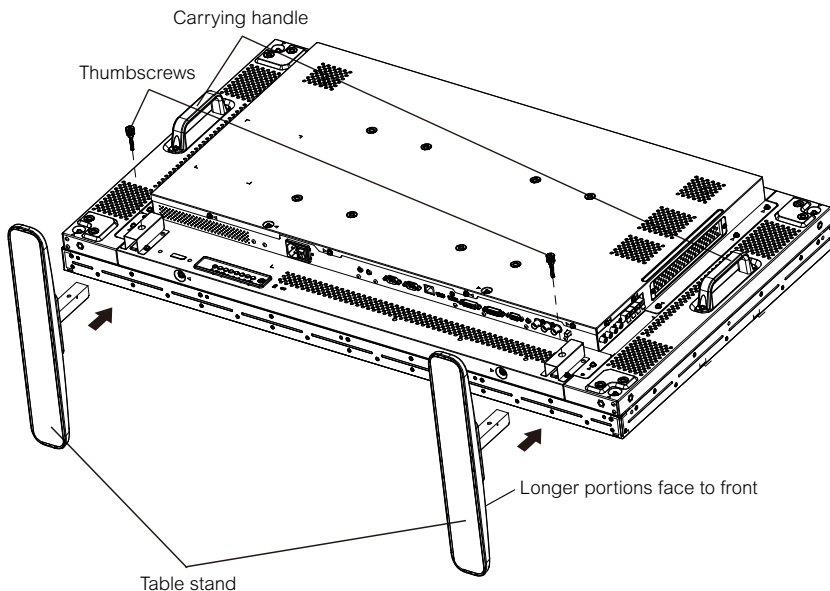
Table stand

To remove table stands:

1   Power off the display.

2   Spread a protective sheet on a flat surface.

3   Grab the carrying handles and place the display face-down on the protective sheet.

4   Remove screws using a screwdriver and place them in a safe place for reuse.

Warning:

♦   Do not press too hard on the LCD panel or edge of the frame, as this may cause the device to malfunction.

♦   During unpacking, make sure to hold the carrying handles to remove the device from its packaging.

Note:

♦   The longer side of the stand should face the front of the display.

1.4 Wall Mounting Installation

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.

To wall-mount the LCD display, screw the mounting bracket to the VESA holes at the rear of the LCD display.
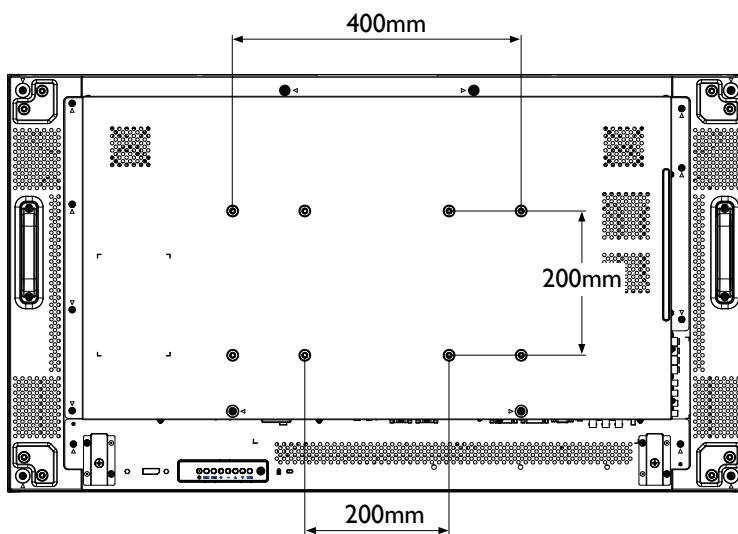
1.4.1   VESA Grid

Model Name	VESA Grid
PN-46D	400(H) x 200(V) mm
	200(H) x 200(V) mm

⚠ 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.

♦ 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.

Note:

♦ Avoid the wall-mounting kit to block the ventilation holes on the back of the display.

♦ Secure the LCD display on a solid wall strong enough to bear its weight.

♦ 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.

♦ Ensure you have all accessories for mounting this display (wall mount, ceiling mount, table stand, etc).

♦ 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.

♦ 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.

1.4.2   Ventilation Requirements for Enclosure Locating

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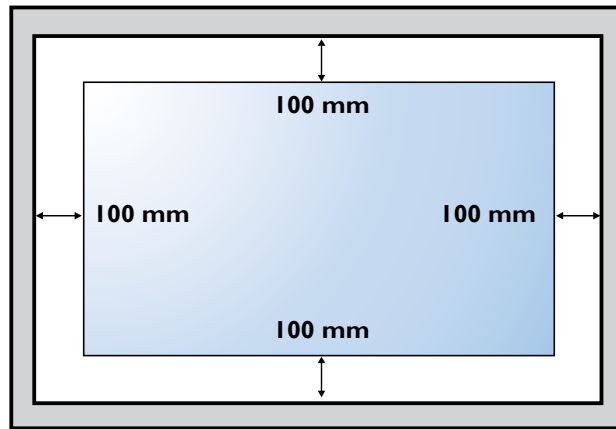
1.5 Mounting in Portrait Position

This display can be installed in portrait position.

1   Remove the table stand, if attached.

2   Rotate 90 degrees counter-clockwise.
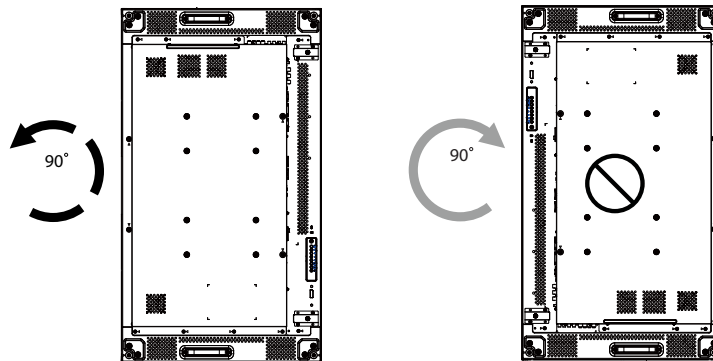
PRODUCT DESCRIPTION

1.6 Installing OPS Device

To install OPS device into its slot on the LCD display, do the following:

1   Remove the screws on the handle, and then remove the handle.

2   Remove the screws on the OPS cover, and then remove the OPS cover.

3   Install the OPS device into its slot.

4   Secure the OPS device by screws.

5   Secure the handle using the screws.
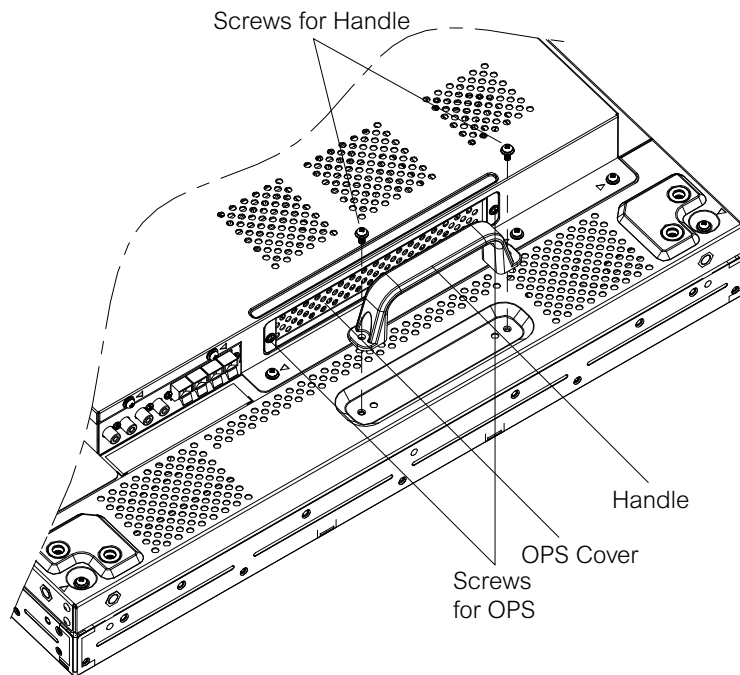
PRODUCT DESCRIPTION

1.7 LCD Display Overview

1.7.1   Control Panel
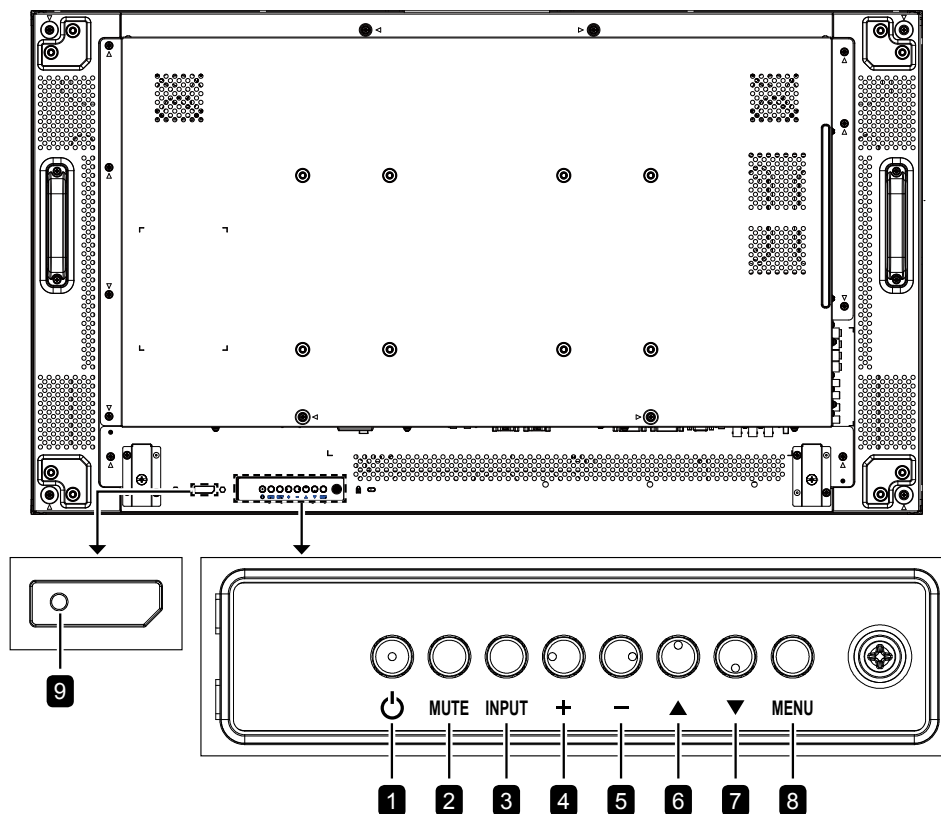
1 **[⏻] Power**

Turn the display on or put the display to standby.

2 **MUTE**

Switch the audio mute ON/OFF.

3 **INPUT**

• Choose the input source.
• Used as the **SET** button while OSD menu is on.

4 **[＋] Increase**

• Increase the adjustment or select an option while OSD menu is on.
• Increase the audio output level while OSD menu is off.

5 **[—] Decrease**

• Decrease the adjustment or select an option while OSD menu is on.
• Decrease the audio output level while OSD menu is off.

6 **[▲] Up**

Move the highlight bar up to select an option while OSD menu is on.

7 **[▼] Down**

Move the highlight bar down to select an option while OSD menu is on.

8 **MENU**

• Return to the previous menu while OSD menu is on.
• Activate the OSD menu when OSD menu is off.

Note:

♦ When the Control Panel Lock mode is enabled, all control panel buttons functions will be locked. To enable or disable the Control Panel Lock mode, press and hold both ＋ and － buttons simultaneously for more than three seconds.

PRODUCT DESCRIPTION

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

- Receive command signals from the remote control.

- Indicate 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
  - 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

- Indicate the operating status of the display with OPS:
  - Lights green when the display is on, but the OPS is off
  - Lights blue when the display and the OPS are on
  - Lights red when the display is in standby mode
  - Lights amber when the display enters APM 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

PRODUCT DESCRIPTION

1.7.2   Input/Output Terminals
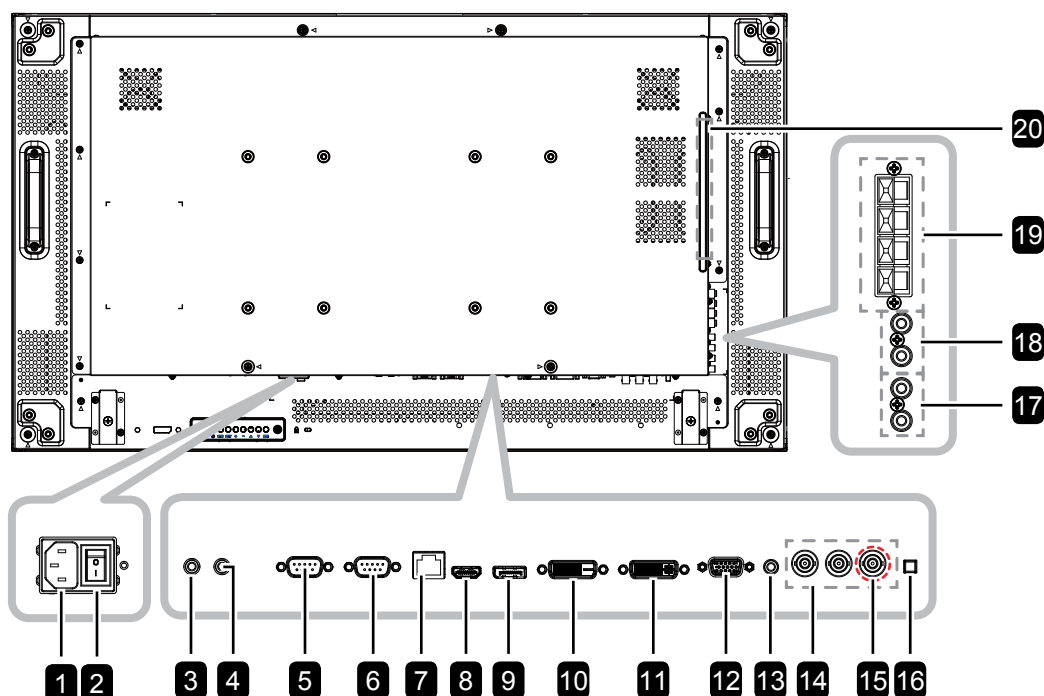
1 AC IN
AC power input from the wall outlet.

2 Main power switch
Switch the main power on/off.

3/4 IR IN/ IR OUT
IR signal input / output for the loop-through function.

Note:

♦   This display's remote control sensor will stop working if the [IR IN] jack is connected.

5/6 RS232C IN/ RS232C OUT
RS232C network output / input for the loop-through function.

7 RJ-45
LAN control function for the use of remote control signal from the control center.

8 HDMI IN
HDMI video/audio input.

9 DisplayPort IN
DisplayPort video input.

10 DVI IN
DVI-D video input.

11 DVI OUT / VGA OUT
DVI or VGA video output.

12 VGA IN (D-Sub)
VGA video input.

13 PC AUDIO IN
Audio input for PC source (3.5mm stereo phone).

14 COMPONENT IN (BNC)
Component YPbPr video source input.

15 Y/CVBS
Video source input.

16 SPEAKER SWITCH
Select the internal or external speaker.

17 AUDIO IN
Audio input from external AV device (RCA).

18 AUDIO OUT (RCA)
Audio output from the AUDIO IN jack to an external AV device.

19 EXT. SPEAKER TERMINAL
Audio output to external speakers.

20 OPS SLOT
Slot for installing the optional OPS module.

1.8 Remote Control

1.8.1   General Functions
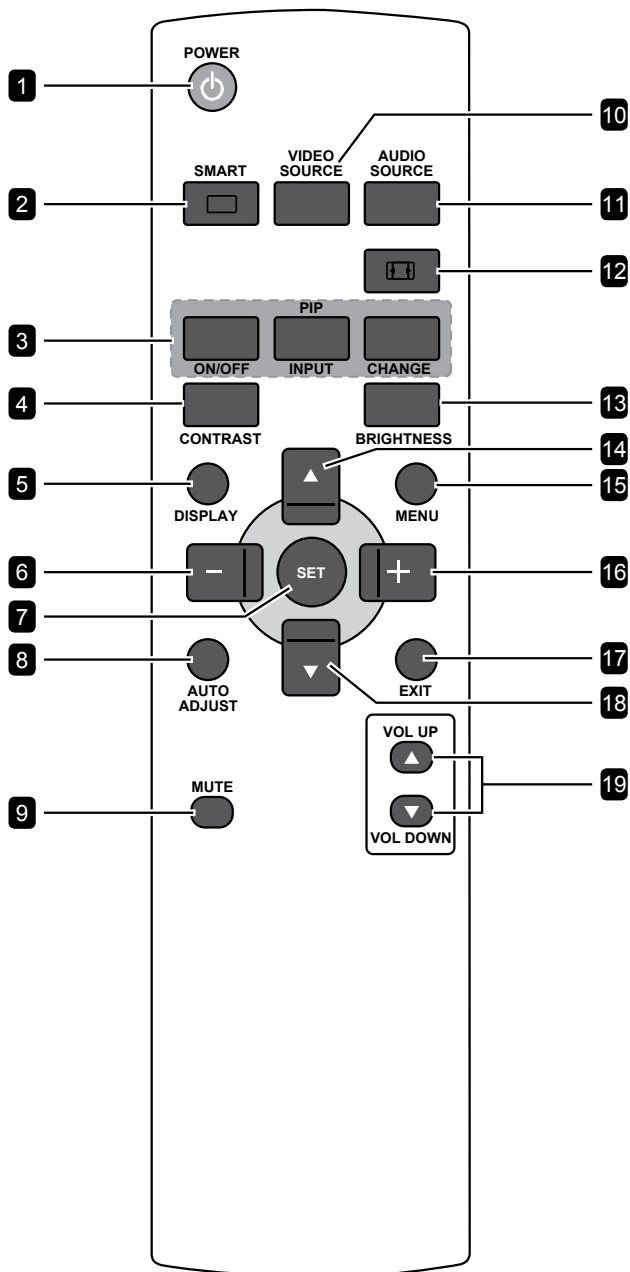
1 **[⏻] POWER**

Turn the display on or to put the display into standby mode.

2 **[▭] SMART**

Activate Smart menu. Press the ▭ button repeatedly to select the desired option.

- STANDARD: Used for normal images (default setting).
- HIGH BRIGHT: Used for moving image such as Video.
- sRGB: Used for text based images (only for PC mode).
- CINEMA: Used for movies (only for Video mode).

3 **[PIP] (Picture In Picture)**

[ON/OFF]: Turn PIP mode ON/OFF.

[INPUT]: Select the input signal for the sub-picture.

[CHANGE]: Toggle between the main picture and sub-picture.

4 **[CONTRAST]**

Sharpen the picture quality. Press the — or + button to adjust the setting.

5 **[DISPLAY]**

Turn on/off the information OSD displayed on the upper right corner of the screen.

6 **[—] Left/Decrease**

- Decrease the adjustment or select an option while OSD menu is on.
- Move the selection to the left while OSD menu is on.
- Move the sub-picture to the left in the PIP mode.

7 **[SET]**

Confirm an entry or selection.

8 **[AUTO ADJUST]**

Execute the Auto Adjust function.

Note:

♦ This function is available only if the input source is VGA.

9 **[MUTE]**

Turn the mute function on/off.

10 **[VIDEO SOURCE]**

Choose the video input source. Press the ▲ or ▼ button to select one of the video sources among HDMI, DVI, VGA, DVD/HD,VIDEO, DP, or OPS. Press the **SET** button to confirm and exit.

11 **[AUDIO SOURCE]**

Choose the audio input source. Press the **AUDIO SOURCE** button repeatedly to select the desired option.

12 **[⊡] FORMAT**

Change the aspect ratio. The available options vary depending on the input source.

- For PC signal: FULL, NORMAL, CUSTOM, and REAL.
- For Video signal: FULL, NORMAL, DYNAMIC, CUSTOM, and REAL.

13 **[BRIGHTNESS]**

Adjust the overall image brightness. Press the ― or ＋ button to adjust the setting.

14 **[▲] Up**

- Move the highlight bar up to select an option while OSD menu is on.
- Move the sub-picture up in the PIP mode.

15 **[MENU]**

Access the OSD menu.

16 **[＋] Right/Increase**

- Increase the adjustment or select an option while OSD menu is on.
- Move the selection to the right while OSD menu is on.
- Move the sub-picture to the right in the PIP mode.

17 **[EXIT]**

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

18 **[▼] Down**

- Move the highlight bar down to select an option while OSD menu is on.
- Move the sub-picture down in the PIP mode.

19 **[VOL UP] / [VOL DOWN] Volume**

Adjust the volume level.

1.8.2 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.
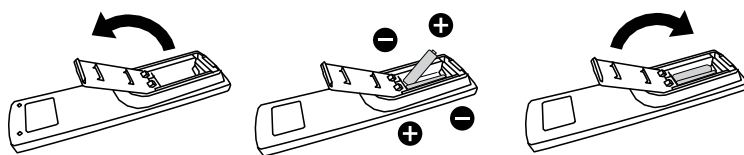
1.8.3 Handling the Remote Control

• 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.

1.8.4 Operating Range of the Remote Control

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

Use the remote control within the range which is shown in the following table.

Operation Angle	RC operational distance
θ= 0º (for H & V)	≥ 8m
θ= 20º (for H & V)	≥ 5m
θ= 45º (for H only)	≥ 2m
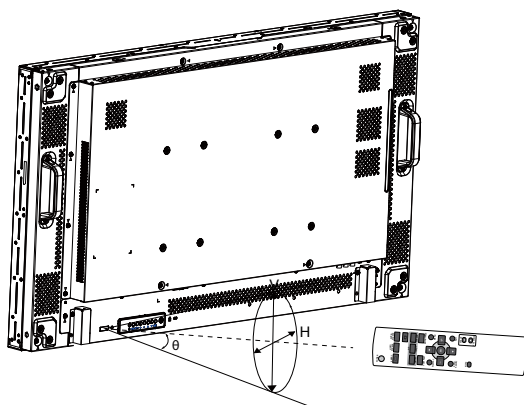
⚠ Caution:

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.

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

CHAPTER 2: MAKING CONNECTIONS

2.1 Connecting the Power

1   Connect one end of the power cord to the AC IN connector at the rear of the LCD display.

2   Connect the other end of the power cord to a power outlet or a power supply.

3   Set the **Main Power** switch to ON.
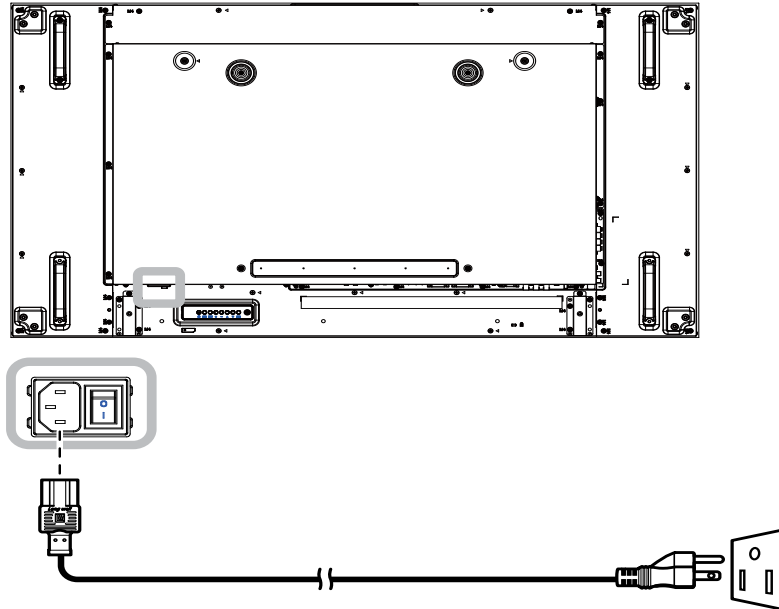
⚠️ **Caution:**

♦   Make sure that the LCD display is not connected to the power outlet before making any connections. Connecting cables while the power is ON may cause electric shock or personal injury.

♦   When unplugging the power cord, hold the power cord by the plug head. Never pull by the cord.

2.2 Using the Switch Cover

A cover for the power switch is provided to prevent the display from being turned on or off accidentally.

To install the switch cover, do the following:

1   Align and install the switch cover on the top of the **Main Power** switch.

2   Secure the switch cover using the screw.
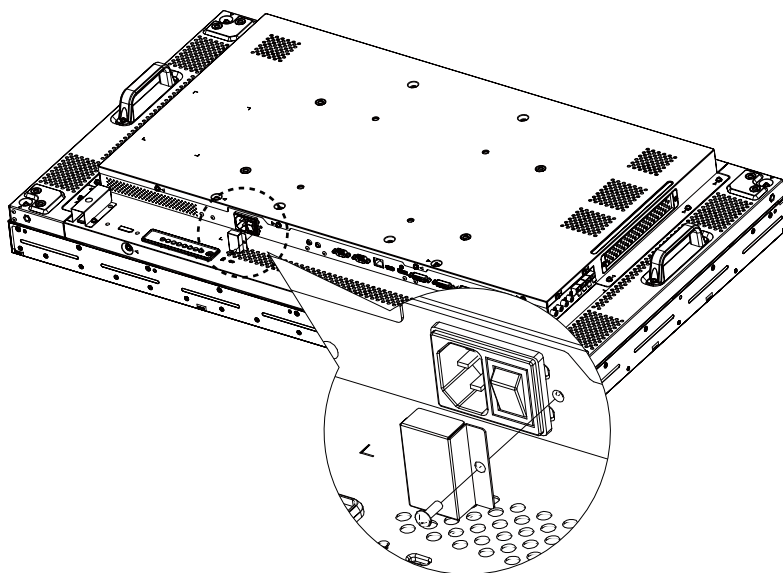
Note:

♦   The peripherals and cables shown are for example purposes only.
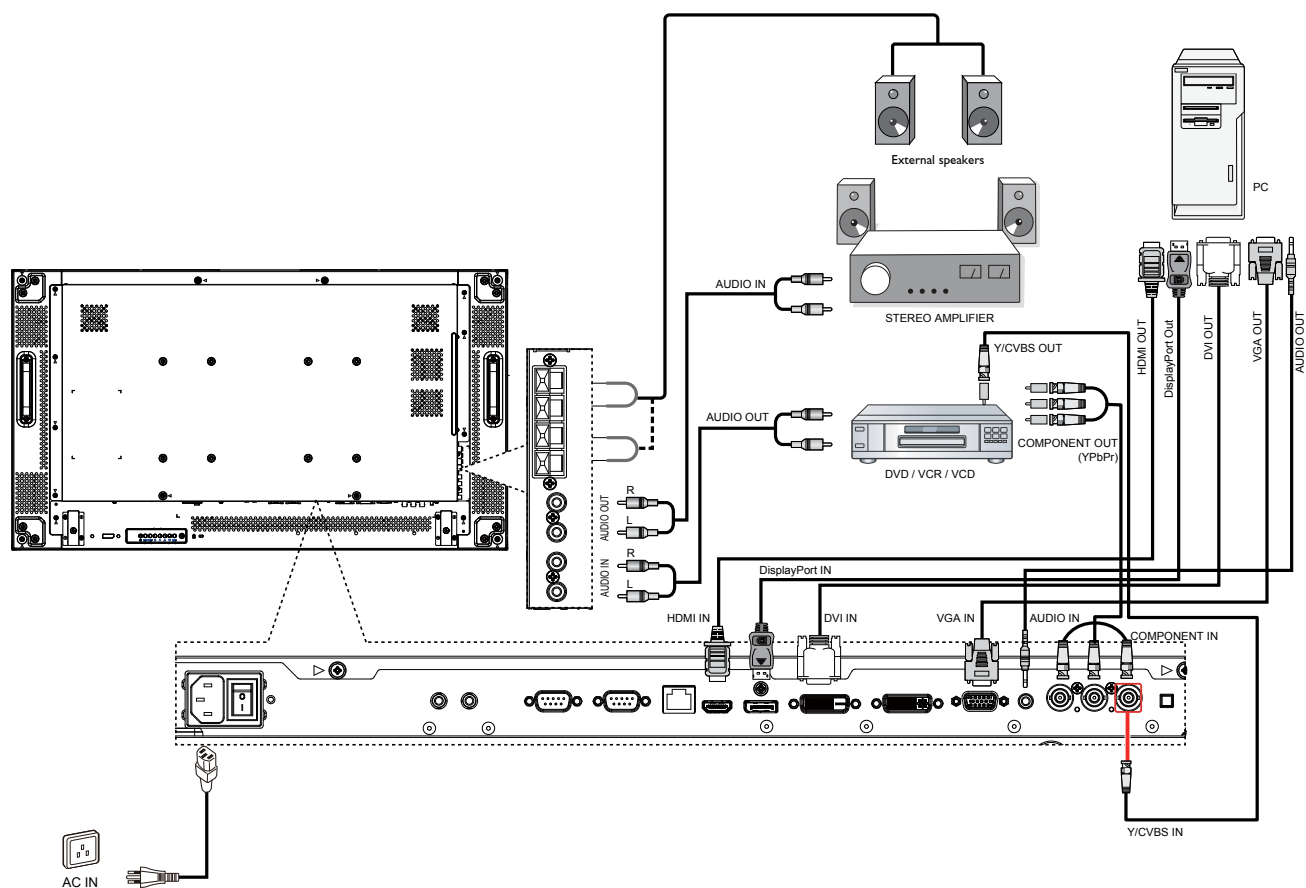
MAKING CONNECTIONS

2.3 Connecting a Computer

2.3.1 Using VGA Input

Connect one end of a D-sub cable to the VGA IN connector of the LCD display and the other end of a D-sub cable to the VGA OUT (D-Sub) connector of the computer.

For audio input, connect one end of an audio cable to the AUDIO IN connector of the LCD display and the other end of an audio cable to the AUDIO OUT connector of the computer.
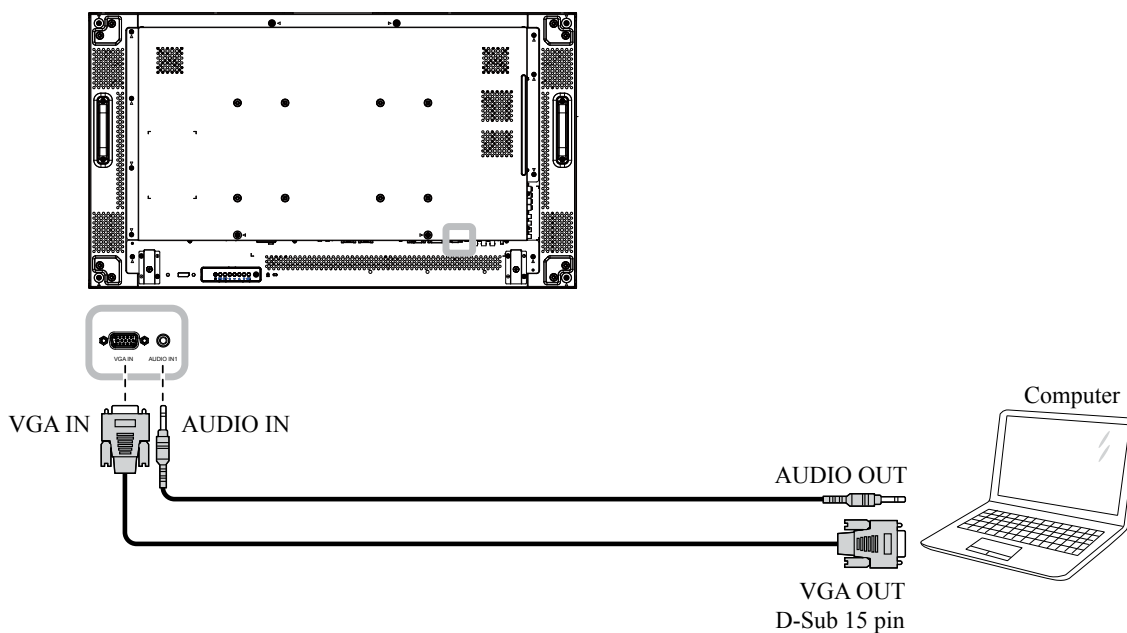
2.3.2 Using DVI Input

Connect one end of a DVI cable to the DVI IN connector of the LCD display and the other end of a DVI cable to the DVI connector of the computer.
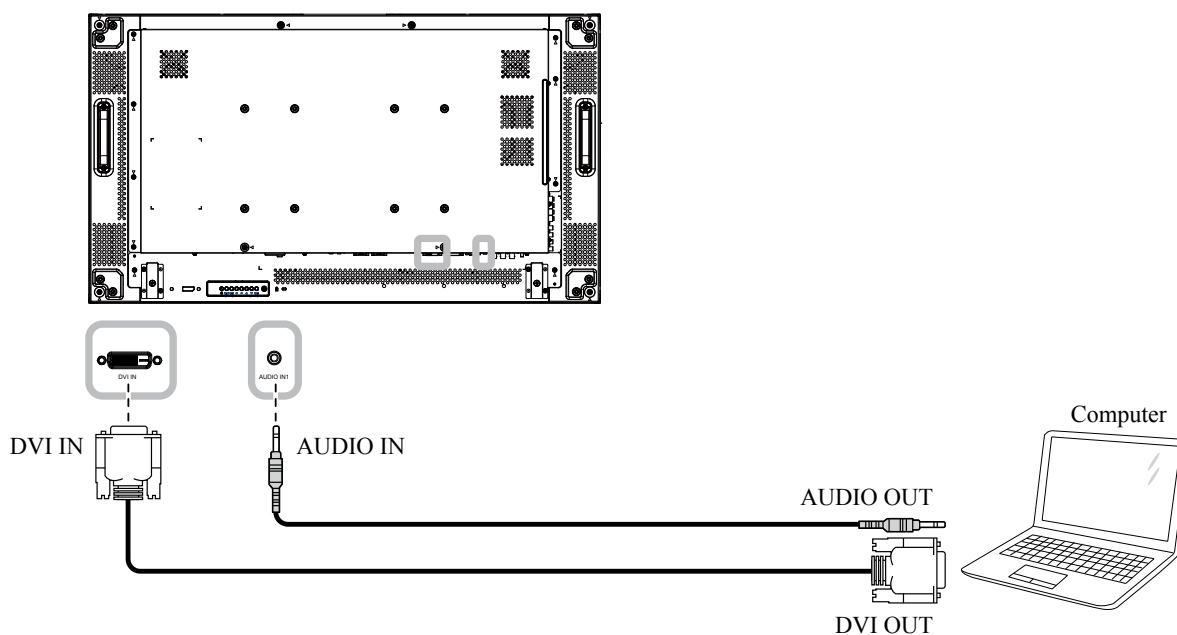
2.3.3 Using HDMI Input

Connect one end of an HDMI cable to the HDMI IN connector of the LCD display and the other end of an HDMI cable to the HDMI OUT connector of the computer.

HDMI IN

Computer

HDMI IN

HDMI OUT
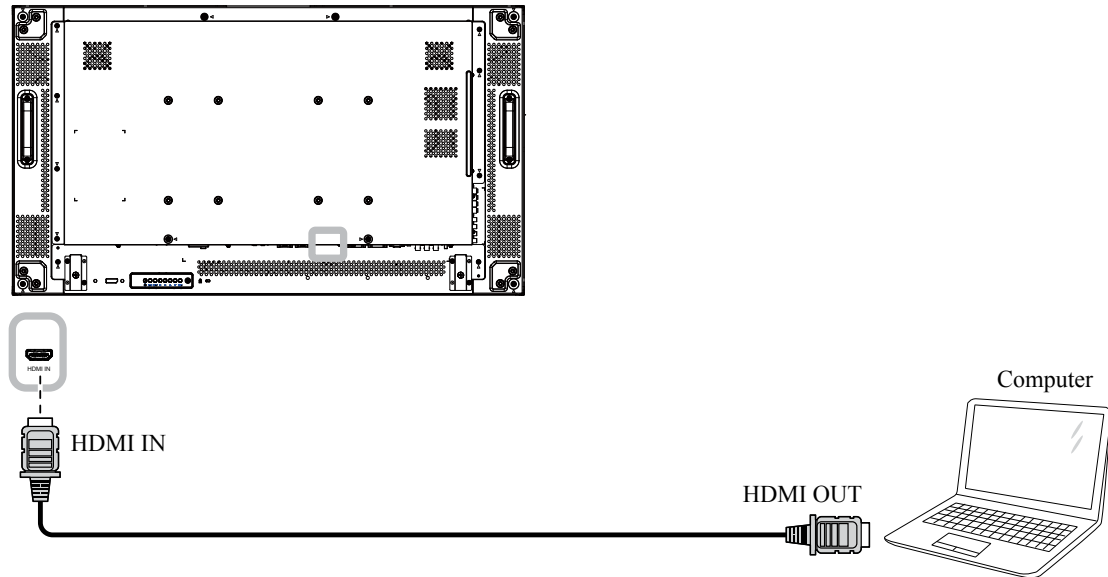
2.3.4 Using DisplayPort Input

Connect one end of a DisplayPort cable to the DisplayPort connector of the LCD display and the other end of a DisplayPort cable to the DisplayPort OUT connector of the computer.

DisplayPort IN

Computer

DisplayPort IN

DisplayPort OUT
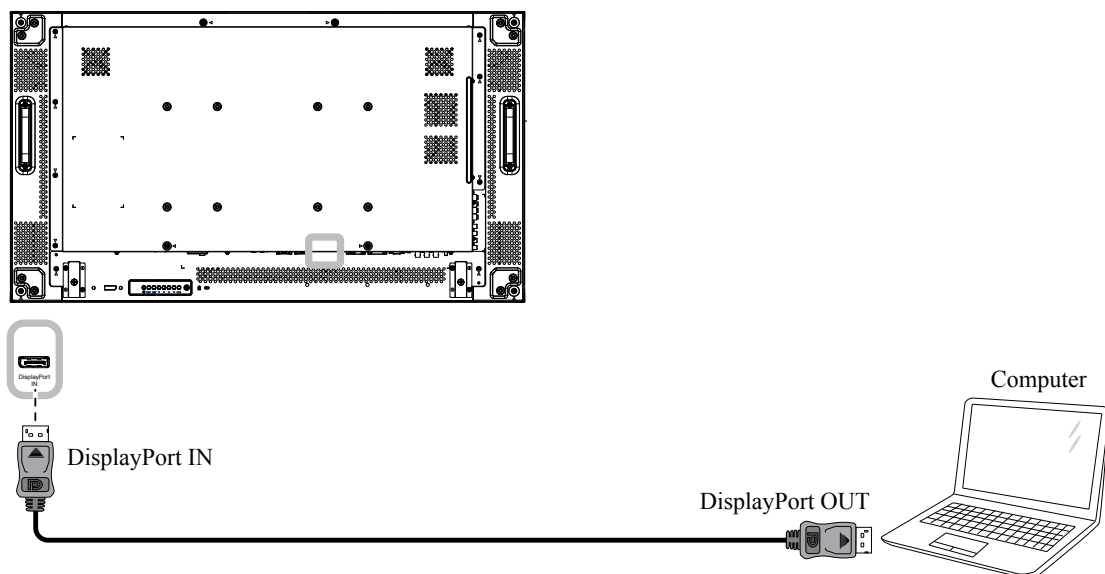
MAKING CONNECTIONS

2.4 Connecting External Equipment (DVD/VCR/VCD)

2.4.1   Using COMPONENT Video Input

Connect one end of a component cable to the COMPONENT IN connector of the LCD display and the other end of a component cable to the COMPONENT OUT connectors of the video player (DVR/VCR/VCD).

For audio input, connect one end of an audio cable to the AUDIO IN connectors of the LCD display and the other end of an audio cable to the AUDIO OUT connectors of the video player (DVR/VCR/VCD).
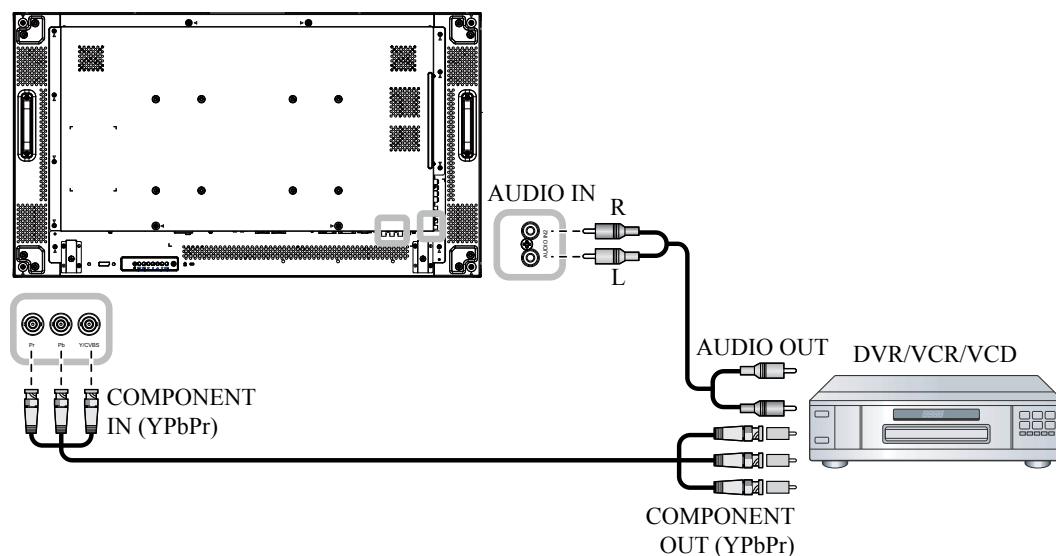
2.4.2   Using Video Source Input

Connect one end of a video cable to the Y/CVBS in port of the LCD display and the other end of a video cable to the Y/CVBS out port of the the video player (DVR/VCR/VCD).

For audio input, connect one end of an audio cable to the AUDIO IN connectors of the LCD display and the other end of an audio cable to the AUDIO OUT connectors of the video player (DVR/VCR/VCD).
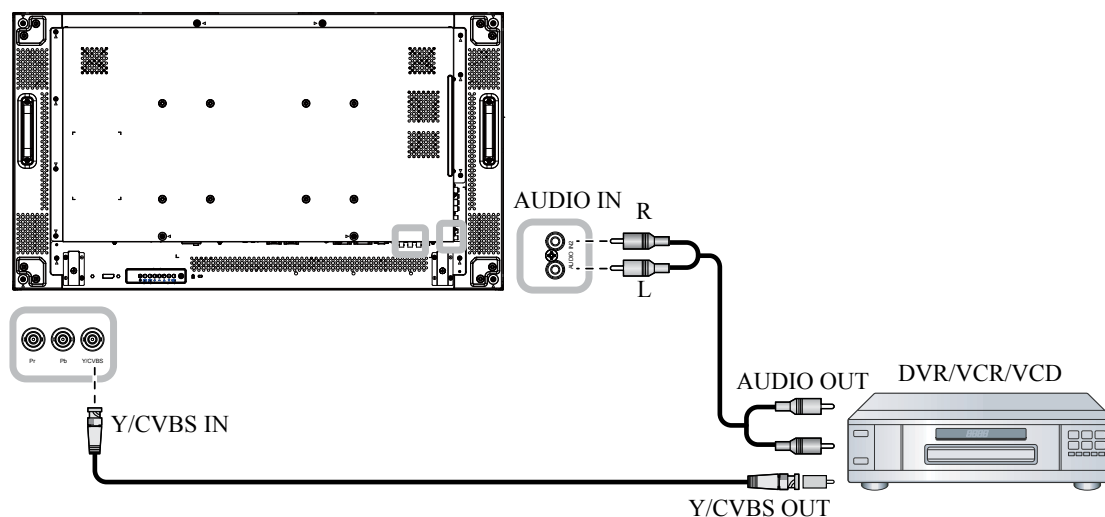
2.4.3 Using HDMI Video Input

Connect one end of an HDMI cable to the HDMI1 IN/ HDMI2 IN connector of the LCD display and the other end of an HDMI cable to the HDMI out connector of the video player (DVR/VCR/VCD).

HDMI IN

DVR/VCR/VCD

HDMI OUT
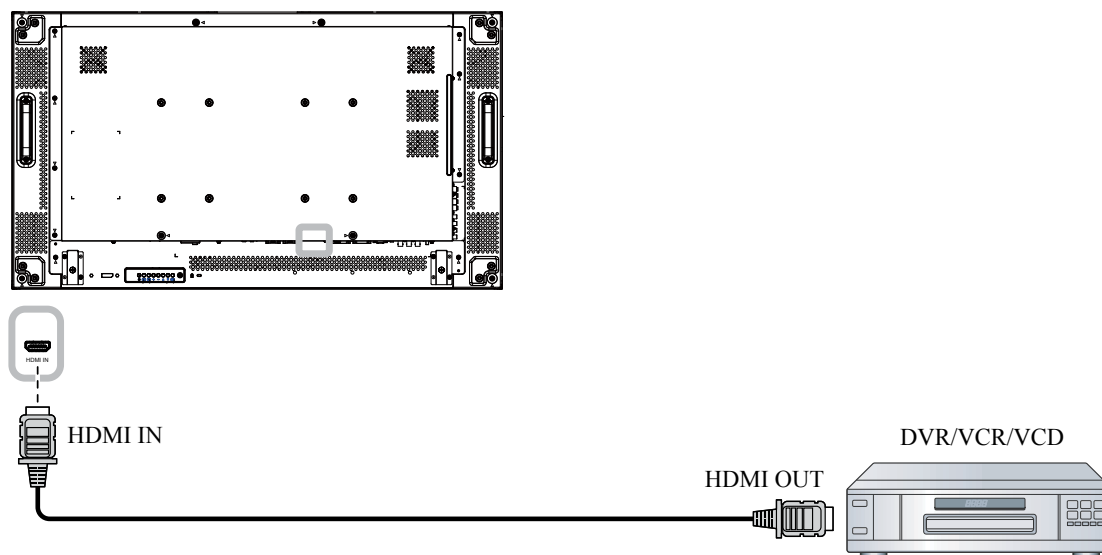
2.5 Connecting Audio Equipment

2.5.1 Connecting External Speakers

Press the Speaker Switch and connect the speakers cables to the EXT. Speaker Terminal of the LCD display.

EXT. Speaker Terminal

Speaker Switch

(External)

External Speakers
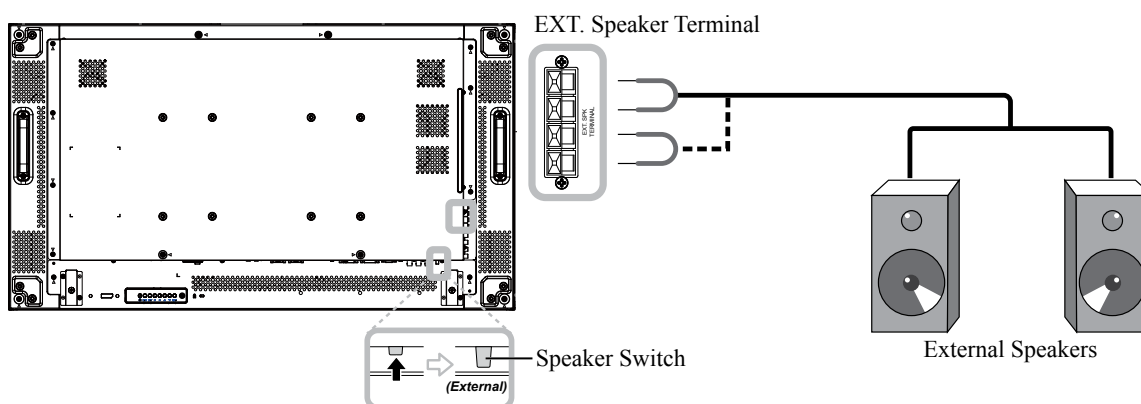
MAKING CONNECTIONS

2.5.2   Connecting an External Audio Device

Connect one end of an audio cable to the AUDIO OUT connector of the LCD display and the other end of an audio cable to the AUDIO IN connector of the audio device.

AUDIO OUT

AUDIO IN

Audio Device
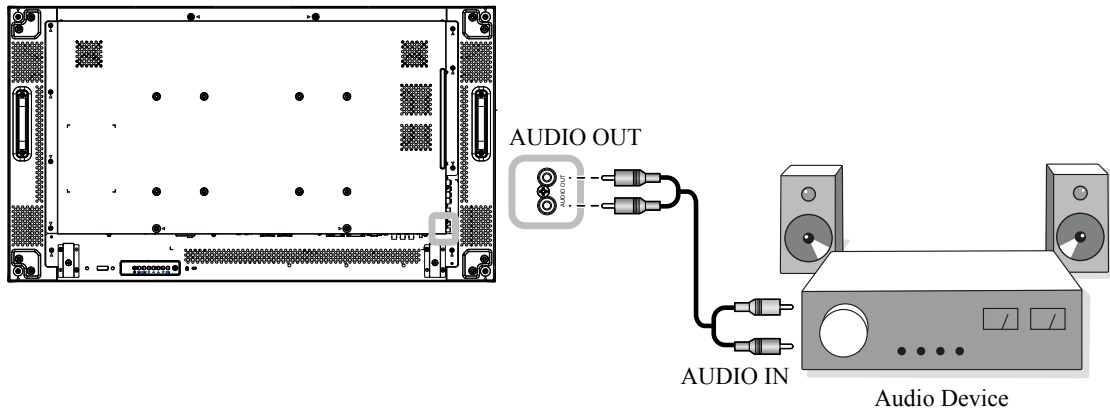
MAKING CONNECTIONS

2.6 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.

⚠ **Caution:**

To avoid unnecessary strain on the bezel, it is highly recommended to keep a minimum space of 0.5mm in which a business card is able to slip between all displays on all sides.
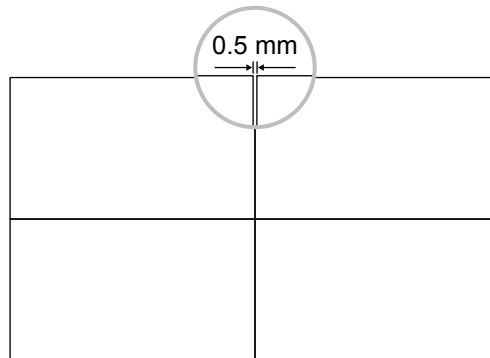
Note:

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

2.6.1 Display Control Connection

Connect the RS232C OUT connector of DISPLAY 1 to the RS232C IN connector of DISPLAY 2.
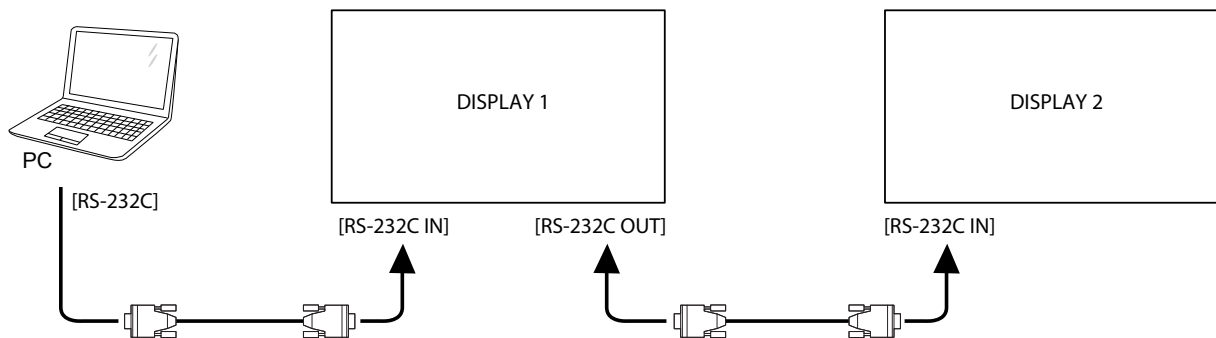
2.6.2 Digital Video Connection

Connect the DVI OUT / VGA OUT connector of DISPLAY 1 to the DVI IN connector of DISPLAY 2.
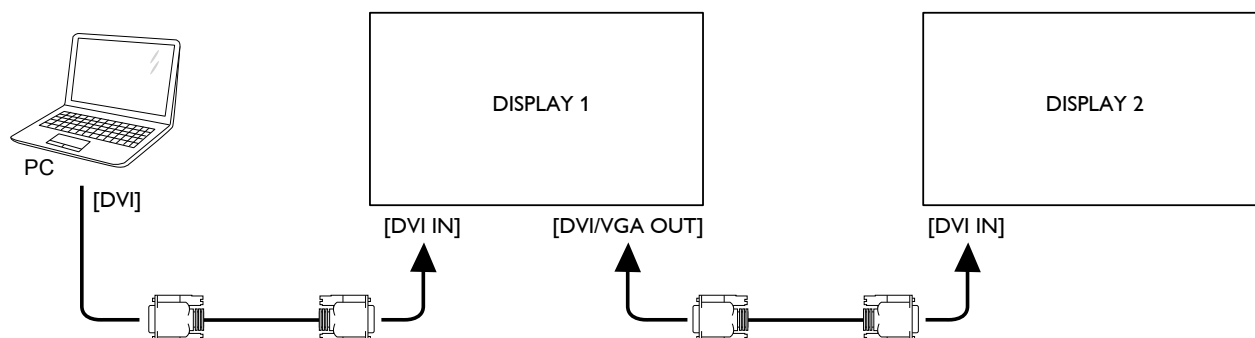
MAKING CONNECTIONS

2.6.3 Analog Video Connection

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

PC

DISPLAY 1

DISPLAY 2

[VGA]

[VGA IN]   [DVI/VGA OUT]

[VGA IN]
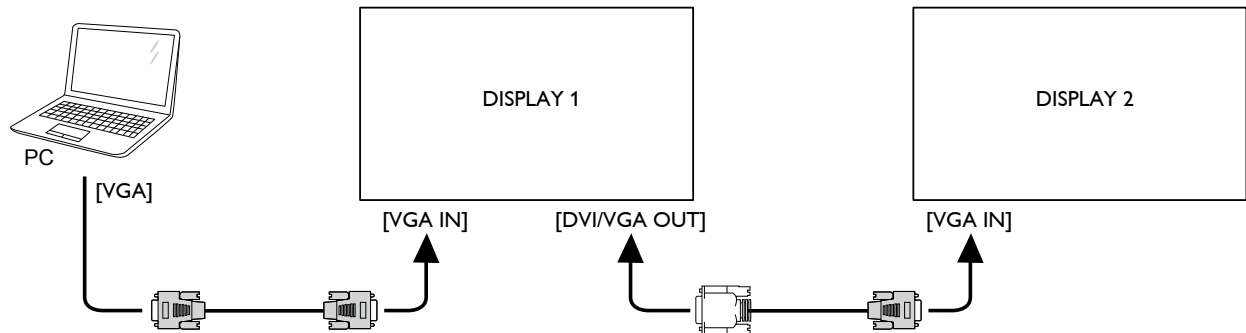
2.7 IR Connection

Connect the IR sensor cable to the IR IN connector of the LCD display.

IR Sensor Cable

IR IN   IR OUT
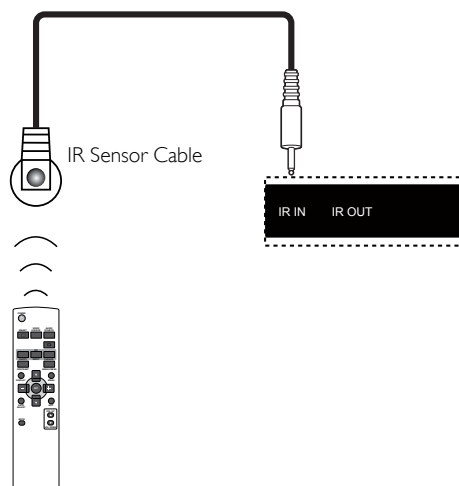
Note:

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

MAKING CONNECTIONS

2.8 IR Pass-Through Connection

To control a Video-Wall set up by multiple displays using the remote control of the DVD player, do the following:

1   Connect the IR sensor cable to the IR IN connector port of the LCD display.

2   Connect one end of the IR cable to the IR OUT connector of the LCD display. Then connect the other end of the IR cable to the IR IN connector of the DVD player. The IR signal will be passed to DVD player when pressing a button.
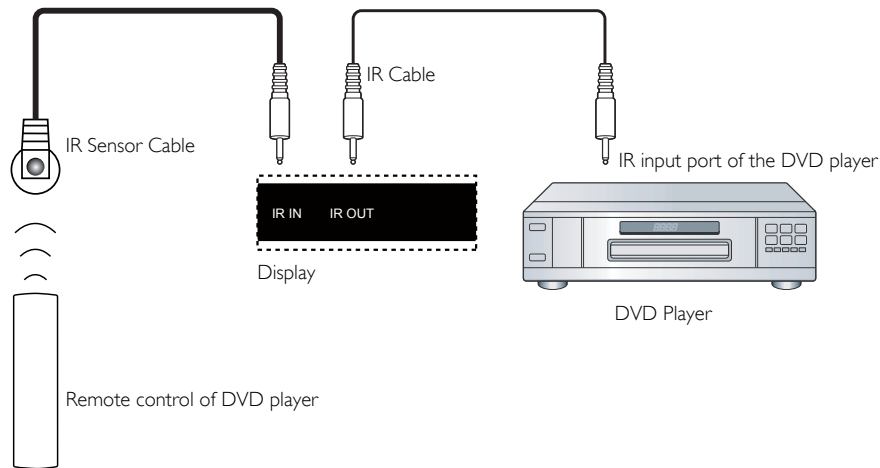
Note:

♦   The remote control may not function properly if the "IR Sensor Cable" is under direct sunlight or strong illumination, or when there is obstacle in the path of signal transmission.

MAKING CONNECTIONS

2.9 Connecting to Wired Network

If you connect this LCD display to a home network, you can play photos, music, and videos from your computer.
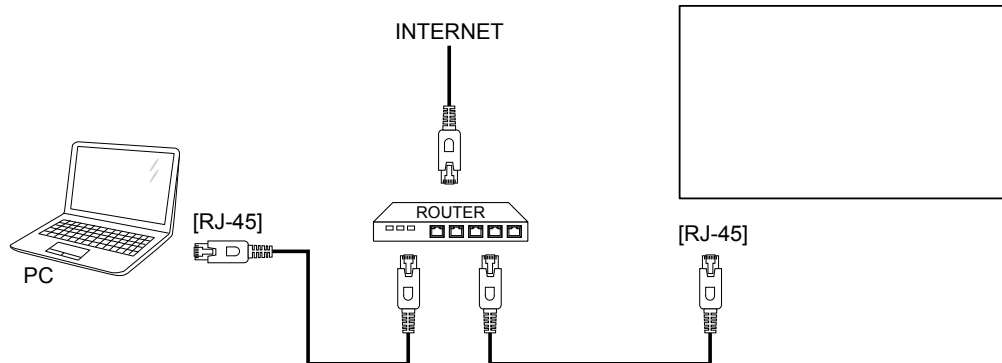
To setup the network:

1   Switch on the router and switch on its DHCP setting.

2   Connect the router to the LCD display with an Ethernet cable.

3   Press the **MENU** button to display the OSD menu.

4   Press the ▲ or ▼ button to select **ADVANCED OPTION**. Press the **SET** button to enter its submenu.

5   Press the ▲ or ▼ button to select **SERIAL CONTROL**. Then press the ▬ or ✚ button to select **LAN**.

6   Press the ▲ or ▼ button to select **LAN SETTING**. Press the **SET** button to enter its submenu.

7   Press the ▲ or ▼ button to select **DHCP CLIENT**. Then press the ▬ or ✚ button to select **ON**.

Note:

♦   Connecting with a shielded CAT-5 Ethernet cable to comply with the EMC directive.

♦   To manually configure the network parameters, set the **DHCP CLIENT** setting to **OFF**.

CHAPTER 3: USING THE LCD DISPLAY

3.1 Turning on the Power
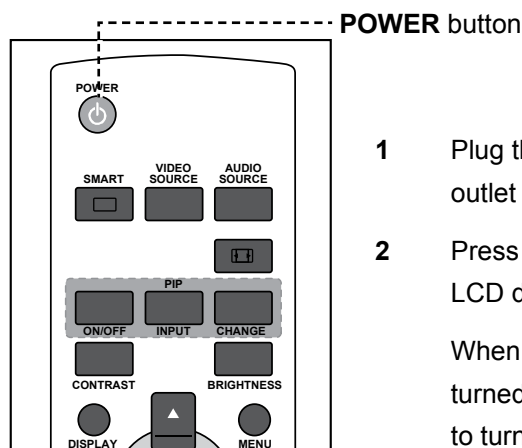
POWER button

1 Plug the power cord to a power outlet or power supply.

2 Press the ⏻ button to turn the LCD display on.

When the LCD display is turned on, press the ⏻ button to turn off the LCD display.

Note:

♦ The LCD display still consumes power as long as the power cord is connected to the power outlet. Disconnect the power cord to completely cut off power.

3.2 Selecting the Input Source Signal

VIDEO SOURCE button
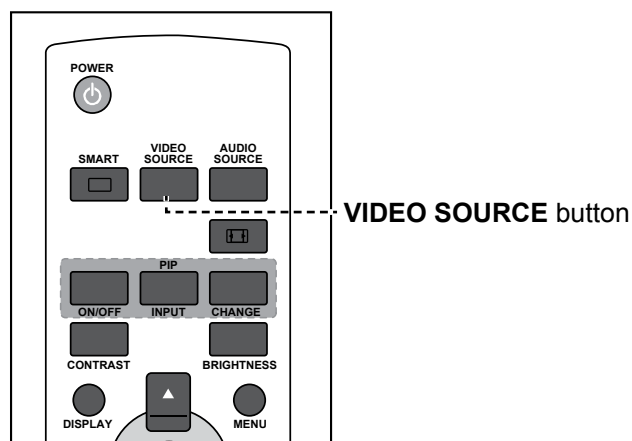
1 Press the **VIDEO SOURCE** button.

2 Press the ▲ or ▼ button to choose a device, then press the **SET** button.

Note:

♦ After pressing the **VIDEO SOURCE** button, a menu with available input sources will be displayed on the screen.

VIDEO INPUT
HDMI
DVI
VGA
DVD / HD
VIDEO
DP
OPS
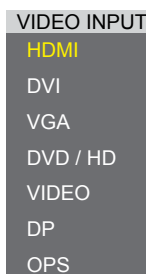
» DVD/HD = YPbPr

♦ If the selected input source signal is not connected to the LCD display or is turned off, the no signal message is displayed on the screen.

ATTENTION!
NO SIGNAL
PLEASE CHECK INPUT
SIGNAL OR CONNECTION.

3.3 Adjusting the Volume
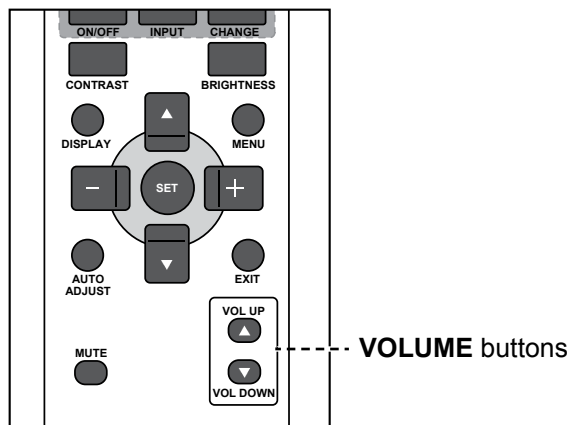
VOLUME buttons

Press the **VOL UP** (▲) or **VOL DOWN** (▼) button to adjust the volume.

Note:

♦ After pressing the **VOL UP** (▲) or **VOL DOWN** (▼) button, the volume menu is displayed on the screen automatically.

```
VOLUME


┌────────────────┐                    30
└────────────────┘

+-:ADJ              EXIT:RETURN    MENU:EXIT MENU
```

♦ Press the **MUTE** button to mute the audio.

3.4 Changing the Picture Format
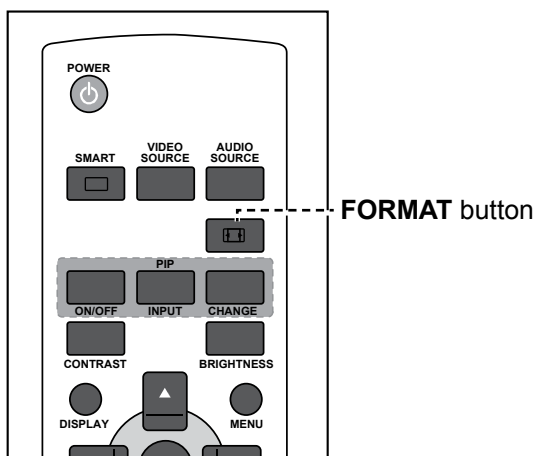
FORMAT button

Press the ⬚ button repeatedly to select the desired option.

Note:

The available picture formats include:

♦ **FULL**: Restore the correct proportions of pictures transmitted in 16:9 using the full screen display.

♦ **NORMAL**: The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture.

♦ **DYNAMIC**: Fill the entire screen by stretching 4:3 pictures non-proportionally. This option is only available for video input source.

♦ **CUSTOM**: Choose to apply the custom zoom settings in the Custom Zoom submenu.

♦ **REAL**: displays the image pixel-by-pixel on screen without scaling the original image size.

USING THE LCD DISPLAY

3.5 Choosing Your Preferred Picture Settings

SMART button

Press the ⬜ button repeatedly to select the desired option.

3.6 Adjusting the Brightness Level
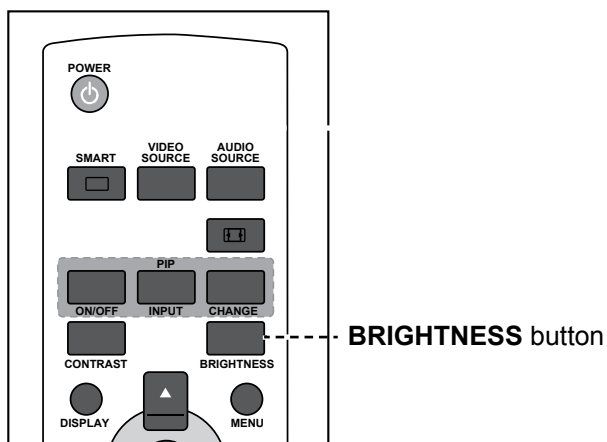
BRIGHTNESS button

1   Press the **BRIGHTNESS** button.

2   Press the ➖ or ➕ button to adjust the setting.

3   Press the **MENU** to exit the menu.

CHAPTER 4: ON SCREEN DISPLAY MENU

4.1 Using the OSD Menu

#	Menu Navigation	Operation	
		Control Panel	**Remote Control**
1	Display the main menu screen. *[PICTURE menu screen shown]* PICTURE BRIGHTNESS — 70 CONTRAST — 50 SHARPNESS — 50 BLACK LEVEL — 50 TINT COLOR COLOR TEMPERATURE — 10000K USER COLOR GAMMA SELECTION — NATIVE NOISE REDUCTION FILM MODE PICTURE RESET ▲▼:SEL SET:NEXT EXIT:RETURN MENU:EXIT MENU	Press the **MENU** button.	Press the **MENU** button.
2	Enter the submenu. *[PICTURE menu screen shown with BRIGHTNESS highlighted]* PICTURE BRIGHTNESS — 70 CONTRAST — 50 SHARPNESS — 50 BLACK LEVEL — 50 TINT COLOR COLOR TEMPERATURE — 10000K USER COLOR GAMMA SELECTION — NATIVE NOISE REDUCTION FILM MODE PICTURE RESET ▲▼:SEL +-:ADJ EXIT:RETURN MENU:EXIT MENU The highlighted item (yellow) indicates the active submenu.	**1** Press the ▲ or ▼ button to select the menu item. **2** Press the **INPUT** button to enter the submenu.	**1** Press the ▲ or ▼ button to select the menu item. **2** Press the **SET** button to enter the submenu.
3	Adjust the settings. The highlighted item indicates the active submenu. For example: *[PICTURE menu screen shown with PICTURE RESET highlighted]* PICTURE BRIGHTNESS — 70 CONTRAST — 50 SHARPNESS — 50 BLACK LEVEL — 50 TINT COLOR COLOR TEMPERATURE — 10000K USER COLOR GAMMA SELECTION — NATIVE NOISE REDUCTION FILM MODE PICTURE RESET ▲▼:SEL SET:NEXT EXIT:RETURN MENU:EXIT MENU PICTURE RESET NO YES ▲▼:SEL SET:SET EXIT:RETURN MENU:EXIT MENU	**1** Press the ▲/▼ button to select an option or press the −/+ button to adjust the setting. **2** Press the **INPUT** button to confirm.	**1** Press the ▲/▼ button to select an option or press the −/+ button to adjust the setting. **2** Press the **SET** button to confirm.

ON SCREEN DISPLAY MENU

#	Menu Navigation	Operation	
		Control Panel	**Remote Control**
4	Exit the submenu.	Press the **MENU** button to return to the previous menu.	Press the **EXIT** button to return to the previous menu.
5	Close the OSD window.	Press the **MENU** button repeatedly.	Press the **MENU** button.

When settings are modified, all changes are saved when the user does the following:

- Proceeds to the another menu.

- Exits the OSD menu.

- Waits for the OSD menu to disappear.

Note:

♦ Availability of some menu items depend on the input source signal. If the menu is not available, it is disabled and grayed out.

4.2 OSD Menu Tree

Main Menu	Submenu	Remarks
1. PICTURE	• BRIGHTNESS • CONTRAST • SHARPNESS • BLACK LEVEL • TINT • COLOR • COLOR TEMPERATURE • USER COLOR • GAMMA SELECTION • NOISE REDUCTION • FILM MODE • PICTURE RESET	See page 38.
2. SCREEN	• AUTO SETUP • AUTO ADJUST • H POSITION • V POSITION • CLOCK • CLOCK PHASE • ZOOM MODE • CUSTOM ZOOM • SCREEN RESET	See page 40.
3. AUDIO	• BALANCE • TREBLE • BASS • AUDIO RESET	See page 42.

ON SCREEN DISPLAY MENU

Main Menu	Submenu	Remarks
4. PIP	• PIP MODE • PIP SIZE • PIP AUDIO • PIP H POSITION • PIP V POSITION • SUB INPUT • PIP RESET	See page 43.
5. CONFIGURATION1	• OFF TIMER • SCHEDULE • DATE AND TIME • LOGO • CONFIGURATION1 RESET	See page 45.
6. CONFIGURATION2	• LANGUAGE • OSD TURN OFF • OSD H POSITION • OSD V POSITION • INFORMATION OSD • MONITOR INFORMATION • MONITOR ID • IR CONTROL • TILING • POWER ON DELAY • CONFIGURATION2 RESET	See page 47.
7. CONFIGURATION3	• POWER SAVE • HEAT STATUS • SCREEN SAVER • SIDE BORDER COLOR • CONFIGURATION3 RESET	See page 51.
8. ADVANCED OPTION	• INPUT CHANGE • TERMINAL SETTING • SCAN CONVERSION • COLOR SYSTEM • SCAN MODE • SERIAL CONTROL • LAN SETTING • APM • ADVANCED OPTION RESET • FACTORY RESET	See page 53.

CHAPTER 5: ADJUSTING THE LCD DISPLAY

5.1 Picture Settings
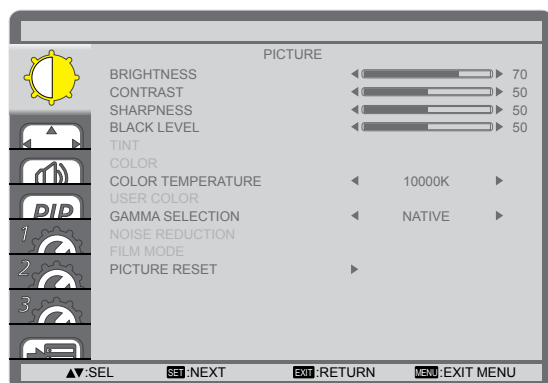
```
                    PICTURE
        BRIGHTNESS              ◄▮         ▶ 70
        CONTRAST               ◄▮         ▶ 50
        SHARPNESS              ◄▮         ▶ 50
        BLACK LEVEL           ◄▮         ▶ 50
        TINT
        COLOR
        COLOR TEMPERATURE      ◄    10000K    ▶
        USER COLOR
        GAMMA SELECTION        ◄    NATIVE    ▶
        NOISE REDUCTION
        FILM MODE
        PICTURE RESET               ▶

   ▲▼:SEL      SET:NEXT      EXIT:RETURN    MENU:EXIT MENU
```

1 Press the **MENU** button on the control panel or remote control to call out the OSD window.

2 Select **PICTURE**, then press the **INPUT** button on the control panel or the **SET** button on the remote control.

3 Press the ▲/▼ button on the control panel or remote control to select an option.

Item	Function	Operation	Range
BRIGHTNESS	Adjust the luminance of the screen image. **Note:** The default value is **70**.	Press the −/＋ button on the control panel or remote control to adjust the value.	0 to 100
	Original Setting	*High Setting*	*Low Setting*
CONTRAST	Adjusts the difference between the black level and the white level. **Note:** The default value is **50**.	Press the −/＋ button on the control panel or remote control to adjust the value.	0 to 100
	Original Setting	*High Setting*	*Low Setting*
SHARPNESS	Adjust the clarity and focus of the screen image. **Note:** The default value is **50**.	Press the −/＋ button on the control panel or remote control to adjust the value.	0 to 100

ADJUSTING THE LCD DISPLAY

Item	Function	Operation	Range
BLACK LEVEL	Adjust the black level of the screen image. Low brightness setting makes black colour darker. **Note:** The default value is **50**.	Press the ─/╋ button on the control panel or remote control to adjust the value.	0 to 100
	Original Setting *High Setting* *Low Setting*		
TINT	Adjust the colour tint. **Note:** The default value is **50**.	Press the ─/╋ button on the control panel or remote control to adjust the value.	0 to 100
COLOR	Adjust the colour saturation of the picture. **Note:** The default value is **50**.	Press the ─/╋ button on the control panel or remote control to adjust the value.	0 to 100
COLOR TEMPERATURE	Select a color temperature for the image. A lower color temperature will have a reddish tint, whilst a higher color temperature gives off a more bluish tint. **Note:** The default value is **10000K**.	Press the ─/╋ button on the control panel or remote control to select an option.	NATIVE USER 3000K 4000K 5000K 6500K 7500K 9300K 10000K
USER COLOR	Adjust the color tones of the image precisely by changing the R-GAIN (Red), G-GAIN (Green) and B-GAIN (Blue) settings independently. Only available if **COLOR TEMPERATURE** setting is set to **USER**. **Note:** The default value is **128**.	Press the ─/╋ button on the control panel or remote control to adjust the value.	0 to 255
GAMMA SELECTION	Adjust the non-linear setting for picture luminance and contrast. **Note:** The default value is **NATIVE**.	Press the ─/╋ button on the control panel or remote control to select an option.	NATIVE 2.2 2.4 S GAMMA

Item	Function	Operation	Range
NOISE REDUCTION	Adjust the noise reduction to help remove noise from images. This helps produce clearer and crisper images. **Note:** The default value is **MIDDLE**.	Press the −/+ button on the control panel or remote control to select an option.	OFF LOW MIDDLE HIGH

Noise Reduction Off	*Noise Reduction On*

Item	Function	Operation	Range
FILM MODE	Enable/Disable the film mode frame conversion function. **Note:** The default value is **AUTO**.	Press the −/+ button on the control panel or remote control to select an option.	OFF AUTO
PICTURE RESET	Reset all settings in the PICTURE menu to the factory preset values.	Press the ▲/▼ button on the control panel or remote control to select an option.	NO YES

5.2 Screen Settings
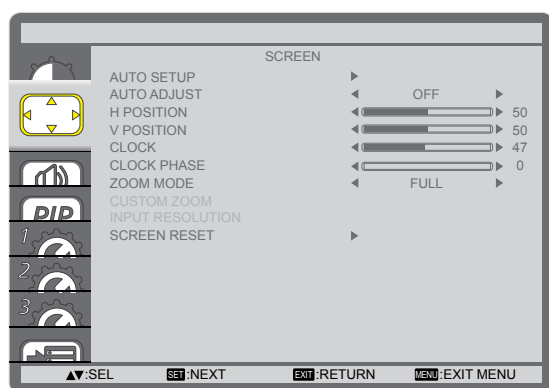
1 Press the **MENU** button on the control panel or remote control to call out the OSD window.

2 Select **SCREEN**, then press the **INPUT** button on the control panel or the **SET** button on the remote control.

3 Press the ▲/▼ button on the control panel or remote control to select an option.

Item	Function	Operation	Range
AUTO SETUP	Use this function to automatically optimize the display of VGA input image. **Note:** This option is available only if the input source is VGA.	Press the **INPUT** button on the control panel or the **SET** button on the remote control to perform auto adjustment.	N/A
AUTO ADJUST	Choose to let the LCD display detect and display available signal sources automatically. **Note:** The default value is **OFF**.	Press the −/+ button on the control panel or remote control to select an option.	ON OFF

ADJUSTING THE LCD DISPLAY

Item	Function	Operation	Range
H POSITION	Move the image to the right or left.	Press the −/+ button on the control panel or remote control to adjust the position.	0 to 100
V POSITION	Move the image up or down.	Press the −/+ button on the control panel or remote control to adjust the position.	0 to 100
CLOCK	Adjust the width of the image. **Note:** This option is available only if the input source is VGA.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
CLOCK PHASE	Adjust to improve the focus, clarity, and stability of the image. **Note:** This option is available only if the input source is VGA.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
ZOOM MODE	The pictures you receive may be transmitted in 16:9 format (wide screen) or 4:3 format (conventional screen). The 16:9 pictures sometimes have a black band at the top and bottom of the screen (letterbox format). This function allows you to optimize the picture display on screen. **Note:** The default value is **FULL**.	Press the −/+ button on the control panel or remote control to select an option.	FULL NORMAL DYNAMIC (for video only) CUSTOM REAL
CUSTOM ZOOM	Use this function to further customize the zoom settings to suit the image you want to display. Only available if the **ZOOM MODE** setting is set to **CUSTOM**.		
	• **ZOOM**: Expand the horizontal and vertical sizes of the image simultaneously. **Note:** The default value is **0**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
	• **H ZOOM**: Expand the horizontal size of the image only. **Note:** The default value is **0**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
	• **V ZOOM**: Expand the vertical size of the image only. **Note:** The default value is **0**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
	• **H POSITION**: Move the horizontal position of the image left or right. **Note:** The default value is **50**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
	• **V POSITION**: Move the vertical position of the image up or down. **Note:** The default value is **50**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100

Item	Function	Operation	Range
SCREEN RESET	Reset all settings in the SCREEN menu to the factory preset values.	Press the ▲/▼ button on the control panel or remote control to select an option.	NO YES

5.3 Audio Settings
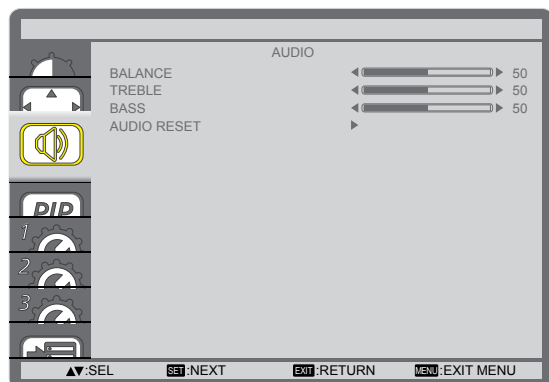
1. Press the **MENU** button on the control panel or remote control to call out the OSD window.

2. Select **AUDIO**, then press the **INPUT** button on the control panel or the **SET** button on the remote control.

3. Press the ▲/▼ button on the control panel or remote control to select an option.

Item	Function	Operation	Range
BALANCE	Adjust to emphasize left or right audio output balance. **Note:** The default value is **50**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
TREBLE	Adjust to increase or decrease higher-pitched sounds. **Note:** The default value is **50**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
BASS	Adjust to increase or decrease lower-pitched sounds. **Note:** The default value is **50**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
AUDIO RESET	Reset all settings in the AUDIO menu to the factory preset values.	Press the ▲/▼ button on the control panel or remote control to select an option.	NO YES

5.4 PIP Settings

	PIP				
PIP MODE	◄	OFF	►		
PIP SIZE	◄	SMALL	►		
PIP AUDIO	◄	MAIN AUDIO	►		
PIP H POSITION	◄	100	►		
PIP V POSITION	◄	100	►		
SUB INPUT	◄	DVI	►		
PIP RESET		►			

▲▼:SEL   SET:NEXT   EXIT:RETURN   MENU:EXIT MENU

1 Press the **MENU** button on the control panel or remote control to call out the OSD window.

2 Select **PIP**, then press the **INPUT** button on the control panel or the **SET** button on the remote control.

3 Press the ▲/▼ button on the control panel or remote control to select an option.

Item	Function	Operation	Range
PIP MODE	Select the PIP (Picture-in-Picture) mode. **Note:** The default value is **OFF**.	Press the −/＋ button on the control panel or remote control to select an option.	OFF PIP POP SBS ASPECT SBS FULL
PIP SIZE	Select the size of the sub picture in the PIP mode. **Note:** The default value is **SMALL**.	Press the −/＋ button on the control panel or remote control to select an option.	SMALL MIDDLE LARGE
PIP AUDIO	Select the audio source in the PIP mode. **Note:** The default value is **MAIN AUDIO**.	Press the −/＋ button on the control panel or remote control to select an option.	MAIN AUDIO PIP AUDIO
PIP H POSITION	Adjust the horizontal placement of the sub picture. **Note:** The default value is **100**.	Press the −/＋ button on the control panel or remote control to adjust the setting.	0 to 100
PIP V POSITION	Adjust the vertical placement of the sub picture. **Note:** The default value is **100**.	Press the −/＋ button on the control panel or remote control to adjust the setting.	0 to 100
SUB INPUT	Select the input signal for the sub-picture.	Press the −/＋ button on the control panel or remote control to select an option.	VIDEO VGA DVD / HD
PIP RESET	Reset all settings in the PIP menu to the factory preset values.	Press the ▲/▼ button on the control panel or remote control to select an option.	NO YES

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Note:

♦ The PIP function is available only for certain signal source combinations as shown in the table below. The availability of the PIP function will also depend on the resolution of the input signal being used.

Main Picture / Sub Picture	DVI	VGA	HDMI	YPbPr	Displayport	Video	Card OPS
DVI	X	O	X	O	X	O	X
VGA	O	X	O	X	O	X	O
HDMI	X	O	X	O	X	O	X
YPbPr	O	X	O	X	O	X	O
Displayport	X	O	X	O	X	O	X
Video	O	X	O	X	O	X	O
Card OPS	X	O	X	O	X	O	X

(O: PIP function available, X: PIP function unavailable)

♦ By pressing the **PIP ON/OFF** button on the remote control, you can change the mode in the order shown below:
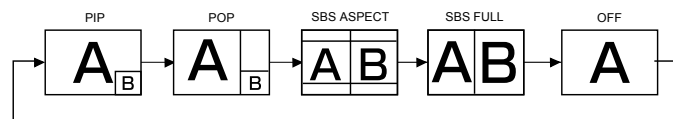
♦ The resolutions in the PIP and POP modes are configured as follows:
PIP SIZE

- SMALL: 320 x 240 pixels
- MIDDLE: 480 x 320 pixels
- LARGE: 640 x 480 pixels

POP SIZE: 474 x 355 pixels
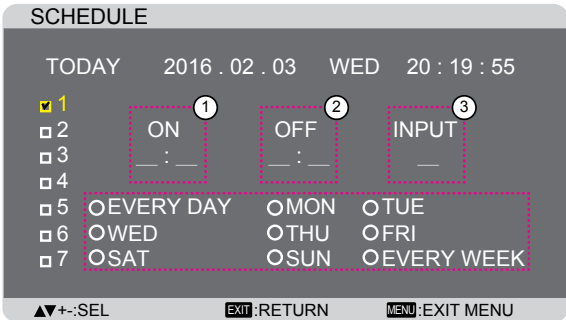
♦ The images displayed in the sub picture always fit the PIP sizes shown above irrespective of the aspect ratio of the input image.

5.5 Configuration1 Settings
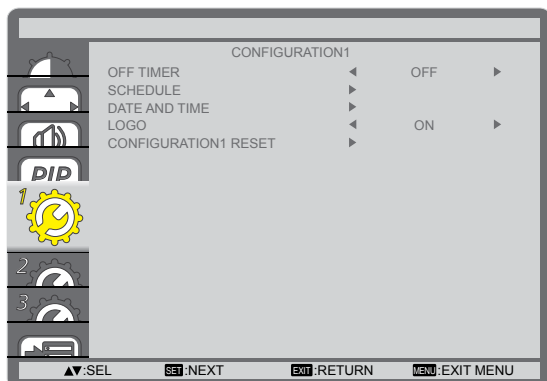
```
                    CONFIGURATION1
   OFF TIMER            ◄        OFF        ►
   SCHEDULE             ►
   DATE AND TIME        ►
   LOGO                 ◄        ON         ►
   CONFIGURATION1 RESET ►
```

```
  ▲▼:SEL      SET:NEXT      EXIT:RETURN    MENU:EXIT MENU
```
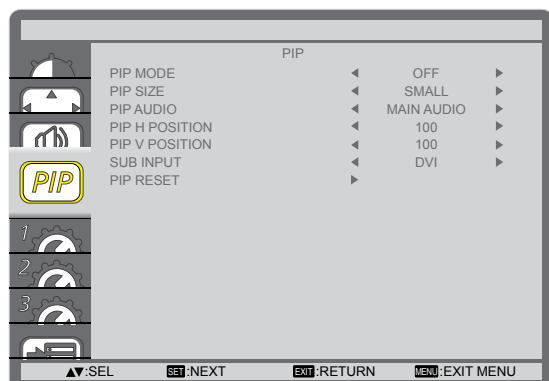
1 Press the **MENU** button on the control panel or remote control to call out the OSD window.

2 Select **CONFIGURATION1**, then press the **INPUT** button on the control panel or the **SET** button on the remote control.

3 Press the ▲/▼ button on the control panel or remote control to select an option.

Item	Function	Operation	Range
OFF TIMER	Switch off the display after a specified time. **Note:** The default value is **OFF**.	Press the ─/╋ button on the control panel or remote control to select an option.	OFF 1 ~ 24 HOURS
SCHEDULE	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 **DATE AND TIME** menu before using this function. To set the schedule, do the following: **1** Press the ▲/▼ button on the control panel or remote control to select a schedule item (item number 1 ~ 7), and then press the **INPUT** button on the control panel or the **SET** button on the remote control to mark the item number. SCHEDULE TODAY 2016 . 02 . 03 WED 20 : 19 : 55 ☑1 ① ② ③ ▫2 ON OFF INPUT ▫3 __ : __ __ : __ __ ▫4 ▫5 ○EVERY DAY ○MON ○TUE ▫6 ○WED ○THU ○FRI ▫7 ○SAT ○SUN ○EVERY WEEK ▲▼+-:SEL EXIT:RETURN MENU:EXIT MENU **2** Press the ─/╋ button on the remote control to select the schedule: ① POWER-ON schedule: Press the ▲/▼ button on the control panel or remote control to set the hour and minute for the display to turn on. ② POWER-OFF schedule: Press the ▲/▼ button on the control panel or remote control to set the hour and minute for the display to turn off. **Note:** Leave an empty "__" for both the hour and minute slot if you do not want to use this power-on or power-off schedule.		

Item	Function	Operation	Range
SCHEDULE (continued)	③ INPUT-SOURCE selection: Press the ▲/▼ button on the control panel or remote control to to select an input source. If no input source is selected, the input source will remain the same as last selected. ④ DATE schedule: Press the ─/╂ button on the control panel or remote control to select which day in a week this schedule item will be taken effect, and then press the **INPUT** button on the control panel or the **SET** button on the remote control. **3** For more schedule settings, press the **MENU** button on the control panel or the **EXIT** button on the remote control and 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. **Note:** ♦ The **EVERY DAY** selection in a schedule item takes priority over the other weekly schedules. ♦ If the schedule is overlapped, the POWER-ON schedule time takes priority over POWER-OFF schedule time. ♦ If there are two schedule items programmed for the same time, the highest numbered schedule takes priority. For example, if the schedule both items #1 and #2 set the display to power on at 7:00 AM and off at 5:00 PM, then only schedule item # 1 will take effect.		
DATE AND TIME	Set the current date and time for the display's internal clock. DATE AND TIME YEAR ◄ 2016 ► MONTH ◄ 02 ► DAY ◄ 03 ► HOUR ◄ 20 ► MINUTE ◄ 20 ► DAYLIGHT SAVING TIME ◄ ON ► CURRENT DATE TIME 2016 . 02 . 03 20 : 20 : 10 ▲▼:SEL +-:ADJ EXIT:RETURN MENU:EXIT MENU		
	• **YEAR/MONTH/DAY**: Set current date.	Press the ─/╂ button on the control panel or remote control to adjust the setting.	N/A
	• **HOUR/MINUTE**: Set current time.	Press the ─/╂ button on the control panel or remote control to adjust the setting.	N/A
	• **DAYLIGHT SAVING TIME**: Enable/Disable the daylight saving time. **Note:** The default value is **ON**.	Press the ─/╂ button on the control panel or remote control to select an option.	ON OFF
LOGO	When enabled, the AG Neovo logo will be shown on the startup screen. **Note:** The default value is **ON**.	Press the ─/╂ button on the control panel or remote control to select an option.	ON OFF

Item	Function	Operation	Range
CONFIGURATION1 RESET	Reset all settings in the CONFIGURATION1 menu to the factory preset values.	Press the ▲/▼ button on the control panel or remote control to select an option.	NO YES
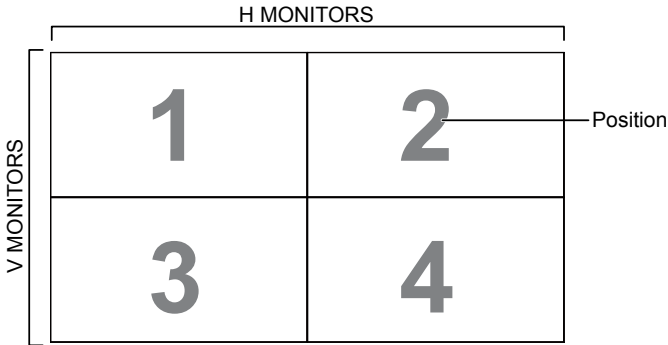
5.6 Configuration2 Settings
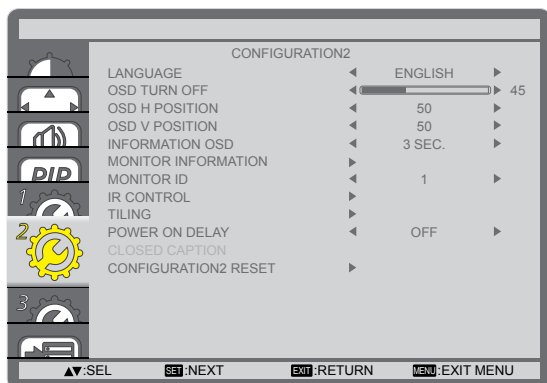
```
                CONFIGURATION2
LANGUAGE                  ◄     ENGLISH     ►
OSD TURN OFF             ◄▐▬▬▬▬▬▬▐►  45
OSD H POSITION           ◄        50        ►
OSD V POSITION           ◄        50        ►
INFORMATION OSD          ◄      3 SEC.      ►
MONITOR INFORMATION      ►
MONITOR ID               ◄        1         ►
IR CONTROL               ►
TILING                   ►
POWER ON DELAY           ◄       OFF        ►
CLOSED CAPTION
CONFIGURATION2 RESET     ►

▲▼:SEL      SET:NEXT      EXIT:RETURN    MENU:EXIT MENU
```
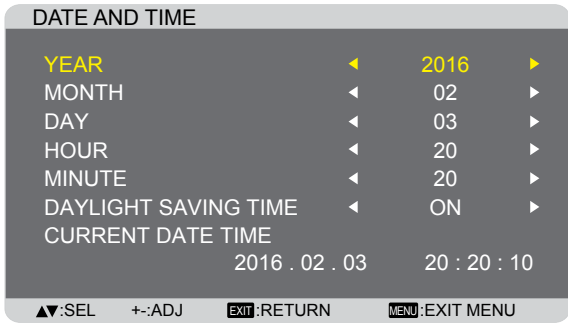
1. Press the **MENU** button on the control panel or remote control to call out the OSD window.

2. Select **CONFIGURATION2**, then press the **INPUT** button on the control panel or the **SET** button on the remote control.

3. Press the ▲/▼ button on the control panel or remote control to select an option.

Item	Function	Operation	Range
LANGUAGE	Choose the language used for OSD menus.	Press the −/+ button on the control panel or remote control to select an option.	ENGLISH GERMAN FRENCH ITALIAN SPANISH SWEDISH JAPANESE CHINESE
OSD TURN OFF	Set the period of time the OSD menu stays on the screen. **Note:** The default value is **45**.	Press the −/+ button on the control panel or remote control to select an option.	5 10 15 ……. 240
OSD H POSITION	Adjust the horizontal position of the OSD menu. **Note:** The default value is **50**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
OSD V POSITION	Adjust the vertical position of the OSD menu. **Note:** The default value is **50**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
INFORMATION OSD	Set the period of time the information OSD displayed on the upper right corner of the screen. The information OSD will appear on the screen when the input signal is changed. The information OSD will remain on the screen if the setting is set to **OFF**. **Note:** The default value is **3 SEC.**.	Press the −/+ button on the control panel or remote control to select an option.	OFF 3 ~ 10 SEC.

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Item	Function	Operation	Range
MONITOR INFORMATION	View the information about your display, including MODEL NAME and SERIAL.	Press the **MENU** button on the control panel or the **EXIT** button on the remote control to return to the previous menu.	N/A
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. **Note:** The default value is **1**.	Press the ─/＋ button on the control panel or remote control to select an option.	1 to 26
IR CONTROL	If the setting is set to **LOCK**, it locks the remote control function of this display. To unlock, press and hold the **DISPLAY** button on the remote control for five seconds. **Note:** The default value is **NORMAL**.	Press the ▲/▼ button on the control panel or remote control to select an option.	NORMAL LOCK
TILING	With this function, you can create a single large-screen matrix (video wall) that consists of up to 150 sets of this display (up to 15-set each at the vertical side and up to 10-set each at the horizontal side). This function requires a daisy-chain connection. TILING H MONITORS ◄ 1 ► V MONITORS ◄ 1 ► POSITION ◄ 1 ► FRAME COMP. ◄ OFF ► ENABLE ◄ OFF ► ▲▼:SEL +-:ADJ EXIT:RETURN MENU:EXIT MENU Example1: 2 x 2 screen matrix (4 displays) H MONITORS = 2 displays V MONITORS = 2 displays H MONITORS V MONITORS 1 2 — Position 3 4		

Item	Function	Operation	Range
TILING (continued)	Example2: 5 x 5 screen matrix (25 displays) H MONITORS = 5 displays V MONITORS = 5 displays <table><tr><td colspan="5">H monitors</td></tr><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5 — Position</td></tr><tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr><tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr><tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr><tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr></table>(V monitors on left side)		
	• **H MONITORS**: Adjust displays on the horizontal side. **Note:** The default value is **1**.	Press the −/+ button on the control panel or remote control to select an option.	1 to 15
	• **V MONITORS**: Adjust displays on the vertical side. **Note:** The default value is **1**.	Press the −/+ button on the control panel or remote control to select an option.	1 to 10
	• **POSITION**: Adjust the position of this display in the screen matrix. **Note:** The default value is **1**.	Press the −/+ button on the control panel or remote control to select an option.	1 to 150
	• **FRAME COMP.**: If frame compensation is enabled, then the display will adjust the image to compensate for the width of the display bezels in order to accurately display the image. **Note:** The default value is **OFF**.	Press the −/+ button on the control panel or remote control to select an option.	ON OFF

	• **ENABLE**: Enable/Disable the TILING function. If tiling is enabled, you can configure the following display settings:
	  • **H MONITORS**
	  • **V MONITORS**
	  • **POSITION**
	  • **FRAME COMP.**
	Note: The default value is **OFF**.
		Press the −/+ button on the control panel or remote control to select an option.	ON
			OFF

ADJUSTING THE LCD DISPLAY
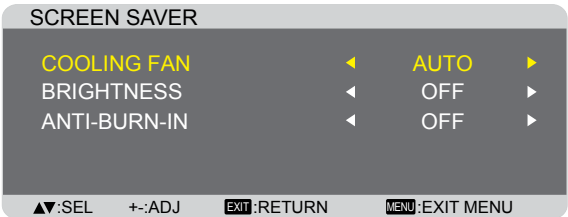
Item	Function	Operation	Range
POWER ON DELAY	Select the delayed time until the power-on mode is activated after the power is turned on manually or automatically. This setting is useful in hiding start-up messages and powering on the connected devices at different timings. **Note:** The default value is **OFF**.	Press the −/+ button on the control panel or remote control to select an option.	OFF 2 SEC. 4 SEC. 6 SEC. 8 SEC. 10 SEC. 20 SEC. 30 SEC. 40 SEC. 50 SEC.
CONFIGURATION2 RESET	Reset all settings in the CONFIGURATION2 menu to the factory preset values.	Press the ▲/▼ button on the control panel or remote control to select an option.	NO YES

5.7 Configuration3 Settings

```
                    CONFIGURATION3
     POWER SAVE                      ▶
     HEAT STATUS                     ▶
     SCREEN SAVER                    ▶
     SIDE BORDER COLOR     ◄    51   ▶
     CONFIGURATION3 RESET            ▶




   ▲▼:SEL     SET:NEXT      EXIT:RETURN    MENU:EXIT MENU
```
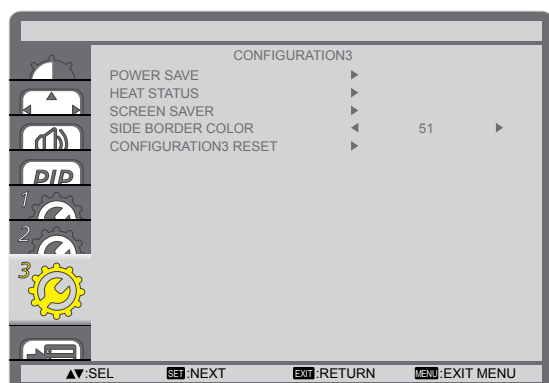
1 Press the **MENU** button on the control panel or remote control to call out the OSD window.

2 Select **CONFIGURATION3**, then press the **INPUT** button on the control panel or the **SET** button on the remote control.

3 Press the ▲/▼ button on the control panel or remote control to select an option.

Item	Function	Operation	Range
POWER SAVE	Set the display to reduce the power automatically. ```POWER SAVE\n\n RGB ◄ ON ▶\n\n VIDEO ◄ ON ▶\n\n▲▼:SEL +-:ADJ EXIT:RETURN MENU:EXIT MENU```		
	• **RGB**: Select **ON** to let the LCD display enter APM mode with no signal detected from the HDMI Graphic mode, HDMI, DVI-D, or VGA inputs after three successive cycles. **Note:** The default value is **ON**.	Press the ─/＋ button on the control panel or remote control to select an option.	ON OFF
	• **VIDEO**: Select **ON** to let the LCD display enter power saving mode with no signal detected from the HDMI Video mode or YPbPr inputs after three successive cycles. **Note:** The default value is **ON**.	Press the ─/＋ button on the control panel or remote control to select an option.	ON OFF
HEAT STATUS	View the thermal status of the LCD display.	Press the **MENU** button on the control panel or the **EXIT** button on the remote control to return to the previous menu.	N/A
SCREEN SAVER	Choose to enable the panel saving functions to reduce the risk of the "image persistence". ```SCREEN SAVER\n\n COOLING FAN ◄ AUTO ▶\n BRIGHTNESS ◄ OFF ▶\n ANTI-BURN-IN ◄ OFF ▶\n\n▲▼:SEL +-:ADJ EXIT:RETURN MENU:EXIT MENU```		
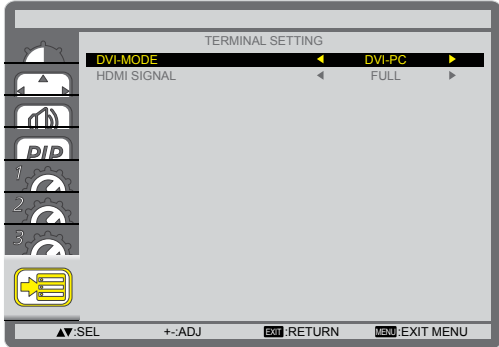
Item	Function	Operation	Range
SCREEN SAVER (continue)	• **COOLING FAN**: Set the cooling fan operation. » **ON**: Turn on the cooling fan all the time. » **AUTO**: Turn on/off the cooling fan according to the LCD display temperature. **Note:** ♦ The default value is **AUTO**. The cooling fan will start running the cooling fan if the temperature of 60°C (147°F) is reached, and will stop after cooling down to the temperature of 58°C (140°F). ♦ A temperature-warning message will appear on the screen once the temperature reaches 78°C. Once the temperature reaches 79°C, all buttons function (except the **POWER** button) will then be disabled.	Press the −/+ button on the control panel or remote control to select an option.	AUTO ON
	• **BRIGHTNESS**: Select **ON** and the brightness of the image will be reduced to an appropriate level. When this function is enabled, the BRIGHTNESS setting in the PICTURE menu will become unavailable. **Note:** The default value is **OFF**.	Press the −/+ button on the control panel or remote control to select an option.	ON OFF
	• **ANTI-BURN-IN**: Select the time interval (10 ~ 900 SEC. / OFF) for the LCD display to slightly expand the image size and shift the position of pixels in four directions (up, down, left, or right). **Note:** The default value is **OFF**.	Press the −/+ button on the control panel or remote control to select an option.	OFF 10 SEC. 20 SEC. 30 SEC. … 900 SEC.
SIDE BORDER COLOR	Adjust the brightness of the black areas displayed on both sides of 4:3 images. **Note:** The default value is **51**.	Press the −/+ button on the control panel or remote control to adjust the setting.	0 to 100
CONFIGURATION3 RESET	Reset all settings in the CONFIGURATION3 menu to the factory preset values.	Press the ▲/▼ button on the control panel or remote control to select an option.	NO YES
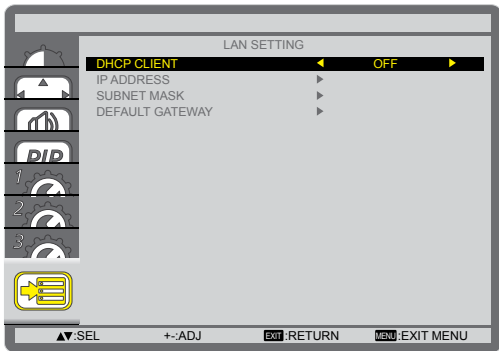
5.8 Advanced Option Settings

```
                    ADVANCED OPTION
     INPUT CHANGE              ◄      NORMAL      ►
     TERMINAL SETTING          ►
     SCAN CONVERSION
     COLOR SYSTEM
     SCAN MODE
     SERIAL CONTROL            ◄      LAN         ►
     LAN SETTING               ►
     APM                       ◄      OFF         ►
     ADVANCED OPTION RESET     ►
     FACTORY RESET             ►




     ▲▼:SEL      SET:NEXT        EXIT:RETURN    MENU:EXIT MENU
```

1 Press the **MENU** button on the control panel or remote control to call out the OSD window.

2 Select **ADVANCED OPTION**, then press the **INPUT** button on the control panel or the **SET** button on the remote control.

3 Press the ▲/▼ button on the control panel or remote control to select an option.

Item	Function	Operation	Range
INPUT CHANGE	Select the time for input switching. **Note:** ♦ The default value is **NORMAL**. ♦ If the setting is set to **QUICK**, it may cause a slight noise.	Press the −/+ button on the control panel or remote control to select an option.	NORMAL QUICK
| TERMINAL SETTING | Select the mode to display the HDMI or DVI signal according to their signal format depending on their source device.<br><br>```
                    TERMINAL SETTING
     DVI-MODE          ◄      DVI-PC      ►
     HDMI SIGNAL       ◄      FULL        ►
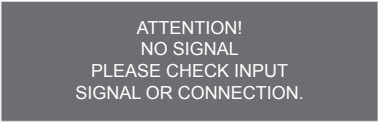



     ▲▼:SEL    +-:ADJ    EXIT:RETURN   MENU:EXIT MENU
```<br><br>• **DVI-MODE**: Used for DVI-D signal.<br> » **DVI-PC**: Select this option when the source device is a PC.<br> » **DVI-HD**: Select this option when the source device is a video device.<br>**Note:** The default value is **DVI-PC**. | Press the −/+ button on the control panel or remote control to select an option. | DVI-PC<br>DVI-HD |
| | • **HDMI SIGNAL**: Used for HDMI signal.
 » **LIMITED**: Select this option when displaying the signal that uses 16 to 235 levels of 256 levels for each R, G, and B.
 » **FULL**: Select this option when displaying the signal that uses all 256 levels (from level 0 to 255).
Note: The default value is **FULL**. | Press the −/+ button on the control panel or remote control to select an option. | FULL
LIMITED |

Item	Function	Operation	Range
SCAN CONVERSION	Enable/Disable the IP (Interlace to Progressive) conversion function. **Note:** The default value is **PROGRESSIVE**.	Press the ─/✚ button on the control panel or remote control to select an option.	PROGRESSIVE INTERLACE
COLOR SYSTEM	Select the Color System depending on your input video format. **Note:** ♦ The default value is **AUTO**. ♦ This option is only available for VIDEO input.	Press the ─/✚ button on the control panel or remote control to select an option.	AUTO NTSC PAL SECAM 4.43NTSC PAL-60
SCAN MODE	Change the display area of the image. If the setting is set to **OVERSCAN**, it will display about 95% of the original size of the image. The rest of the areas surrounding the image will be cut off. **Note:** ♦ The default value is **UNDERSCAN**. ♦ This option is only available for HDMI-Video timing input.	Press the ─/✚ button on the control panel or remote control to select an option.	UNDERSCAN OVERSCAN
SERIAL CONTROL	Select the network control port. **Note:** ♦ The default value is **RS-232C**. ♦ If the setting is set to **LAN**, the RS-232C connector will be disabled, even if a cable is attached, and vice versa.	Press the ─/✚ button on the control panel or remote control to select an option.	LAN RS-232C OPS RS232
LAN SETTING	Choose how the LCD display should assign addresses to the network resources. This option is only available when the **SERIAL CONTROL** setting is set to **LAN**. LAN SETTING DHCP CLIENT ◄ OFF ► IP ADDRESS ► SUBNET MASK ► DEFAULT GATEWAY ► ▲▼:SEL +-:ADJ EXIT:RETURN MENU:EXIT MENU		

Item	Function	Operation	Range
LAN SETTING (continue)	• **DHCP CLIENT**: Enable/Disable the DHCP function. If the setting is set to **ON**, the IP ADDRESS, SUBNET MASK, and DEFAULT GATEWAY parameters will be assigned automatically. **Note:** The default value is **ON**.	Press the ─/╋ button on the control panel or remote control to select an option.	ON OFF
	• **IP ADDRESS/SUBNET MASK/ DEFAULT GATEWAY**: Manually configure the network parameters. This option can only be configured when the **DHCP CLIENT** setting is set to **OFF**.	• Press the **INPUT** button on the control panel or the **SET** button on the remote control to enter the submenu. • Press the ─/╋ button on the control panel or remote control to select the field. • Press the ▲/▼ button on the control panel or remote control to adjust the value. • Press the **MENU** button on the control panel or the **EXIT** button on the remote control to return to the previous menu.	N/A
APM	Configure the Power Save setting. • **OFF**: If no signal is detected, the LCD display will automatically turn off. • **ON**: If no signal is detected, the LCD display will automatically go into Power Save mode. **Note:** The default value is **OFF**.	Press the ─/╋ button on the control panel or remote control to select an option.	ON OFF
ADVANCED OPTION RESET	Reset all settings in the ADVANCED OPTION menu to the factory preset values.	Press the ▲/▼ button on the control panel or remote control to select an option.	NO YES
FACTORY RESET	Reset all your customized settings to the factory preset values.	Press the ▲/▼ button on the control panel or remote control to select an option.	NO YES

CHAPTER 6: APPENDIX

6.1 Warning Messages

Warning Messages	Cause	Solution
INPUT NOT SUPPORTED!!	The resolution or the refresh rate of the graphics card of the computer is set too high.	• Change the resolution or the refresh rate of the graphics card.
ATTENTION! NO SIGNAL PLEASE CHECK INPUT SIGNAL OR CONNECTION.	The LCD display cannot detect the input source signal.	• Check if the input source is turned ON. • Check if the signal cable is properly connected. • Check if any pin inside the cable connector is twisted or broken.
**	The operation using the control panel buttons has been locked by the user.	• To unlock, press and hold both ─ and ＋ buttons on the control panel for more than three seconds.
**	The operation using the remote control buttons has been locked by the user.	• To unlock, press and hold the **DISPLAY** button on the remote control for five seconds.

Note:

♦ (**) No Warning message will appear on the screen.

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6.2 Supported Resolution

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			

General guidelines:

- 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.

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- 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.

6.3 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 insert sprays, solvents and thinners.

Cabinet Cleaning Instructions

- If the cabinet becomes dirty, wipe the cabinet with a soft, dry cloth.

- If the cabinet is extremely dirty, soak a lint-free cloth in a mild detergent solution. Wring the cloth to remove as much moisture as possible. Wipe the cabinet. Use another dry cloth to wipe over until the surface is dry.

- Do not allow any water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, operating problems, electrical and shock hazards may result.

- Do not scratch or hit the cabinet with fingers or hard objects of any kind.

- Do not use volatile substances such as insert sprays, solvents and thinners on the cabinet.

- Do not place anything made from rubber or PVC near the cabinet for any extended periods of time.

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6.4 Troubleshooting

Symptom	Possible Cause	Remedy
No picture is displayed	• The main power switch on the back of the display is not switched on. • The selected input has no connection. • The display is in standby mode.	**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 is 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	• The signal cable is not connected properly. • The input signal is beyond the capabilities of the display.	• Make sure that the signal cable is attached firmly. • 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	• The zoom mode is not set correctly. • SCAN MODE may be set incorrectly to UNDERSCAN. • 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	• Improperly connected source signal cable. • Volume is turned all the way down. • **MUTE** function is turned on. • No external speaker connected.	• Make sure that both video and sound inputs are correctly connected. • Press the **VOL UP** (▲) or **VOL DOWN** (▼) button to hear the sound. • Switch the **MUTE** function off by using the **MUTE** button. • Connect the 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.

6.5 Transporting the LCD Display

To transport the LCD display for repair or shipment, place the display in its original packaging carton.

1 Put all the accessories in the box (if necessary).

2 Place the lower foam cushion inside the lower box (a).

3 Place the LCD display down in the lower box (a).

4 Place the upper foam cushion on top of the LCD display.

5 Place the accessories box on the designated area (if necessary).

6 Place the upper box (b) on LCD display.

7 Secure the upper box to the lower box with the supplied locks (c).

CHAPTER 7: SPECIFICATIONS

7.1 Display Specifications

		PN-46D
Panel	Panel Type	LED-Backlit TFT LCD (VA Technology)
	Panel Size	46.0"
	Max. Resolution	FHD 1920 x 1080
	Pixel Pitch	0.530 mm
	Brightness	500 cd/m^2
	Contrast Ratio	3500:1
	Viewing Angle (H/V)	178°/178°
	Display Colour	16.7M
	Response Time	5 ms
Frequency (H/V)	H Freq.	31 kHz-92 kHz
	V Freq.	48 Hz-85 Hz
Input	DisplayPort	x 1
	HDMI	1.3b x 1
	DVI	24-Pin DVI-D
	VGA	15-Pin D-Sub x 1
	Component	BNC x 1
	Composite	BNC x 1 (Share with Component–Y)
Output	DVI	29-Pin DVI-I x 1 (VGA)
External Control	IR In/Out	3.5 mm Phone Jack
	RS232 In/Out	9-Pin D-Sub
	LAN	RJ45 x 1
Other Connectivity	OPS Slot	Yes
Audio	Audio In	Stereo Audio Jack (3.5 mm) Stereo Audio Jack (RCA)
	Audio Out	Stereo Audio Jack (RCA)
	Internal Speakers	10W x 2
	Speaker Output (RMS)	10W x 2
Power	Power Supply	Internal
	Power Requirements	AC 100-240V, 50/60 Hz
	On Mode	135W (On)
	Stand-by Mode	< 0.5W
	Off Mode	< 0.5W
Operating Conditions	Temperature	0°C-40°C (32°F-104°F)
	Humidity	20%-80% (non-condensing)
Storage Conditions	Temperature	-20°C-60°C (-4°F-140°F)
	Humidity	5%-90% (non-condensing)
Mounting	VESA FPMPMI	Yes (400 x 200 mm & 200 x 200 mm)
Security	Kensington Security Slot	Yes
Dimensions	Product w/o Base (W x H x D)	1024.0 x 578.6 x 125.7 mm (40.3" x 22.8" x 4.9")
	Packaging (W x H x D)	1290.0 x 865.0 x 363.0 mm (50.8" x 34.0" x 14.3")
Weight	Product w/o Base	23.0 kg (50.7 lb)
	Packaging	32.4 kg (71.4 lb)

Note:

♦ All specifications are subject to change without prior notice.

SPECIFICATIONS

7.2 Display Dimensions

7.2.1   PN-46D Dimensions

PN4DC0_UM_V013