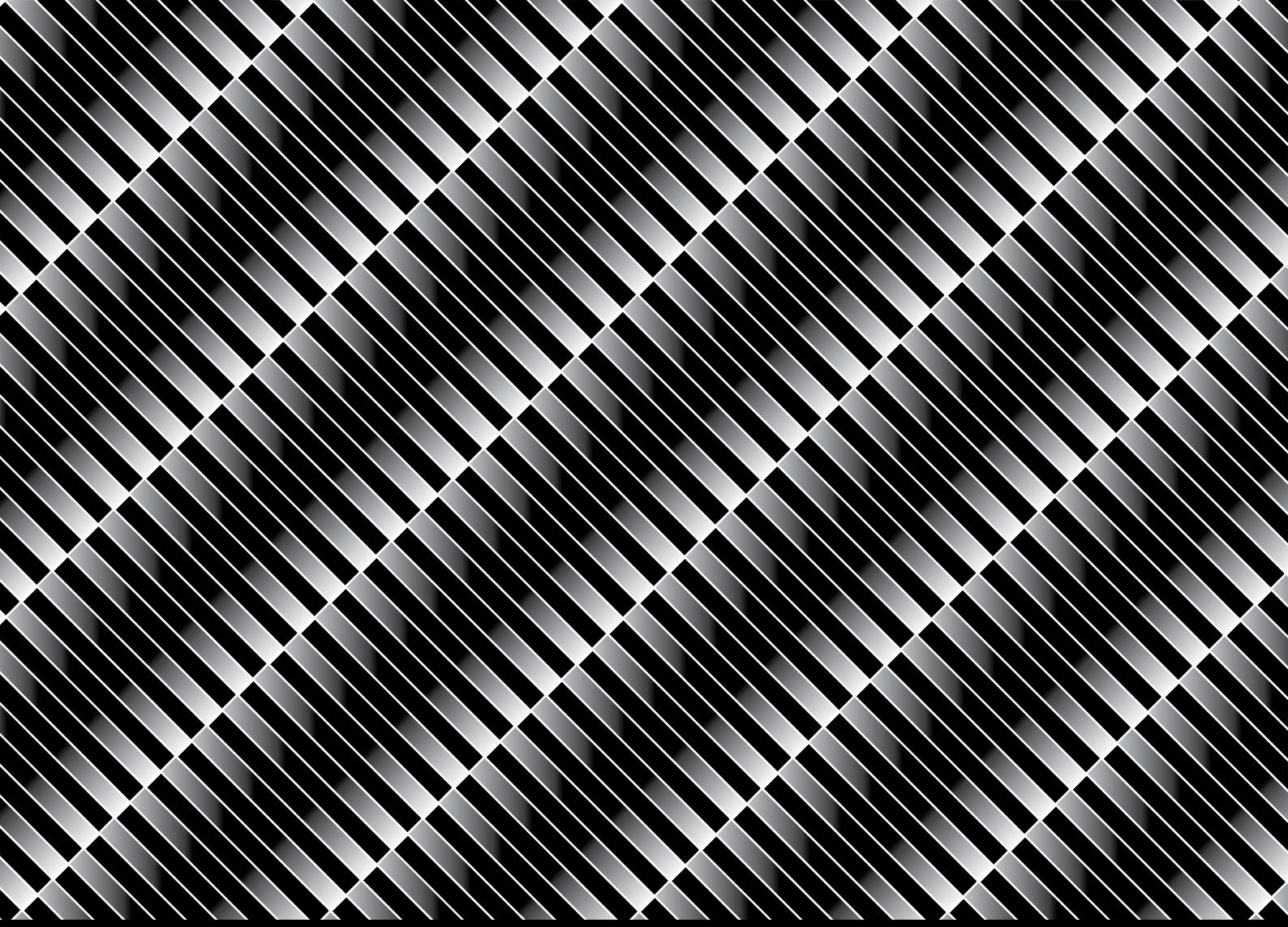

AG neovo

THE DISPLAY CHOICE
OF PROFESSIONALS™

X-15E, X-17E & X-19E LED-Backlit Display

User Manual

displays.agneovo.com

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SAFETY INFORMATION

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

X-19E

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.

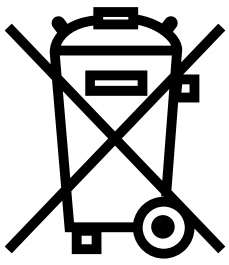
To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

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.

WEEE

Information for users applicable in European Union countries.



The symbol on the product or its packaging signifies that this product has to be disposed separately from ordinary household wastes at its end of life. Please kindly be aware that this is your responsibility to dispose electronic equipment at recycling centers so as to help conserve natural resources. Each country in the European Union should have its collection centers for electrical and electronic equipment recycling. For information about your recycling drop off area, please contact your local related electrical and electronic equipment waste management authority or the retailer where you bought the product.

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.
	Do not place the LCD display in a dusty or humid 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.

Cleaning and Maintenance

The LCD display comes with NeoV™ Optical Glass. Use a soft cloth lightly moistened with a mild detergent solution to clean the glass surface and the housing.

Do not rub or tap the surface of the glass with sharp or abrasive items such as a pen or screwdriver. This may result in scratching the surface of the glass.

Do not attempt to service the LCD display yourself, refer to qualified service personnel. Opening or removing the covers may expose you to dangerous voltage or other risks.

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.

Warning:

Ceiling mount or mount on any other horizontal surface overhead are not advisable.

Installation in contravention of the instructions may result in undesirable consequences, particularly hurting people and damaging property. Users who have already mounted the display on the ceiling or any other horizontal surface overhead are strongly advised to contact AG Neovo for consultations and solutions to help ensure a most pleasurable and fulfilling display experience.

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.
- 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.

When the LCD display is moved from one room to another or there is a sudden change from low to high ambient temperature, dew condensation may form on or inside the glass surface. When this happens, do not turn on the LCD display until the dew disappears.

Due to humid weather conditions, it is normal for mist to form inside the glass surface of the LCD display. The mist will disappear after a few days or as soon as the weather stabilizes.

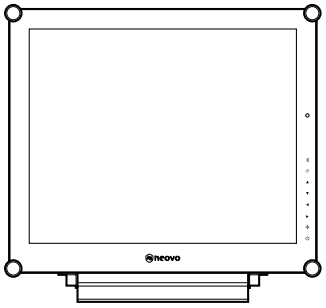
There are millions of micro transistors inside the LCD display. It is normal for a few transistors to be damaged and to produce spots. This is acceptable and is not considered a failure.

CHAPTER 1: PRODUCT DESCRIPTION

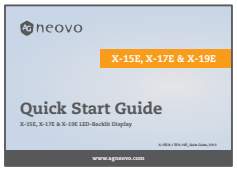
1.1 Package Contents

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

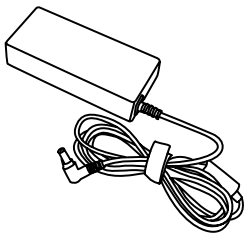
☐ **LCD Display**



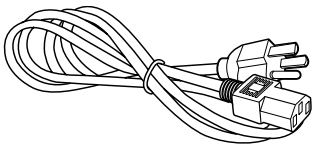
☐ **Quick Start Guide**



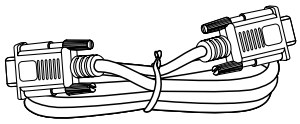
☐ **Power adapter**



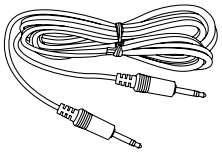
☐ **Power cord**



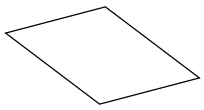
☐ **VGA cable**



☐ **Audio cable**



☐ **Warranty card**



Note:

Must use only the supplied power adapter:

- Lite-on Technology Corporation
  Model no.: PA-1041-81
  Rating: 12V/3.33A

Note:

- The pictures are for reference only. Actual items may vary upon shipment.

1.2 Wall Mounting Installation Preparation

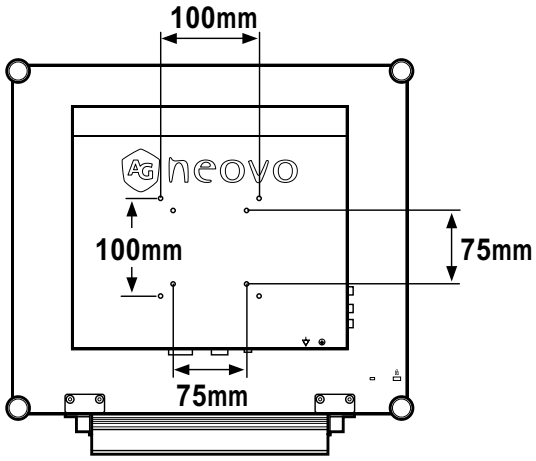
1.2.1 Wall Mounting

1 Remove the base stand.

See procedures below.

2 Wall mount the LCD display.

Screw the mounting bracket to the VESA holes at the rear of the LCD display.



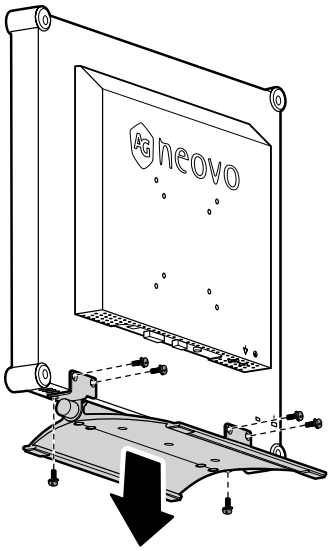
1.2.2 Removing the Base Stand

1 Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.

2 Remove the screws securing the base stand from the LCD display.

3 Detach the base stand.

4 Lock screws back.



Note:

To protect the glass panel, place a towel or soft cloth before laying the LCD display down.

Warning:

Ceiling mount or mount on any other horizontal surface overhead are not advisable.

Installation in contravention of the instructions may result in undesirable consequences, particularly hurting people and damaging property. Users who have already mounted the display on the ceiling or any other horizontal surface overhead are strongly advised to contact AG Neovo for consultations and solutions to help ensure a most pleasurable and fulfilling display experience.

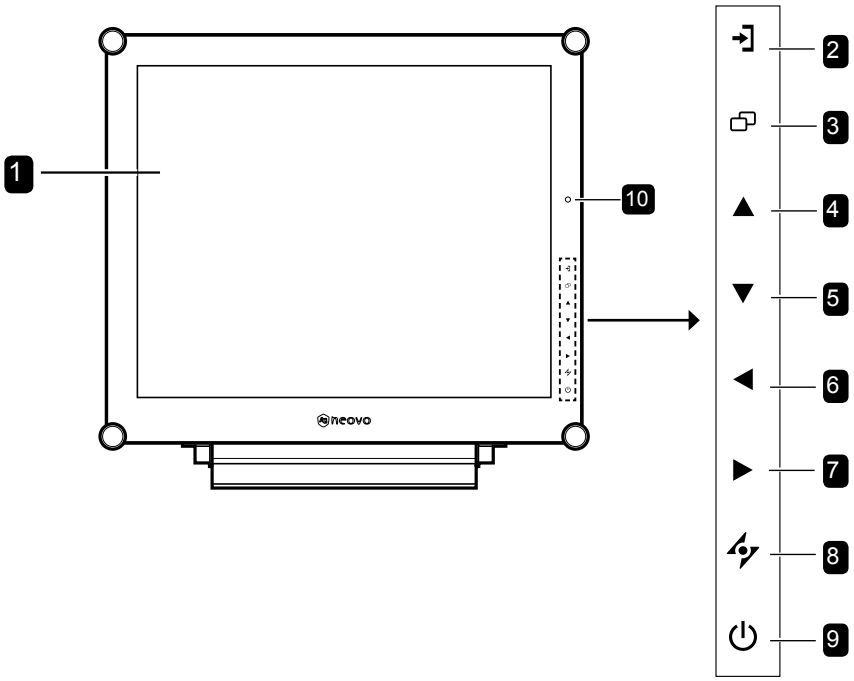
Note:

Take measures to prevent the LCD display from falling down and lessen possible injury and damage to the display in case of earthquakes or other disasters.

- Use only the 75 x 75 mm and 100 x 100 mm wall mount kit recommended by AG Neovo.
- Secure the LCD display on a solid wall strong enough to bear its weight.

1.3 LCD Display Overview

1.3.1 Front View and Keypad Buttons



1 Display screen
The LCD display screen is protected by NeoV™ Optical Glass.

2 SOURCE
- Press repeatedly to select the input signal source.

3 MENU
- Press to display the OSD menu.
- Press again to hide the OSD menu.

4 UP
- Press repeatedly to select PIP option.
- During OSD menu selection, press to move up a menu or submenu.

5 DOWN
- Press to swap the PIP main and sub picture.
- During OSD menu selection, press to move up a menu or submenu.

6 LEFT
- Press to decrease the volume.
- During OSD menu selection, press to adjust the settings.

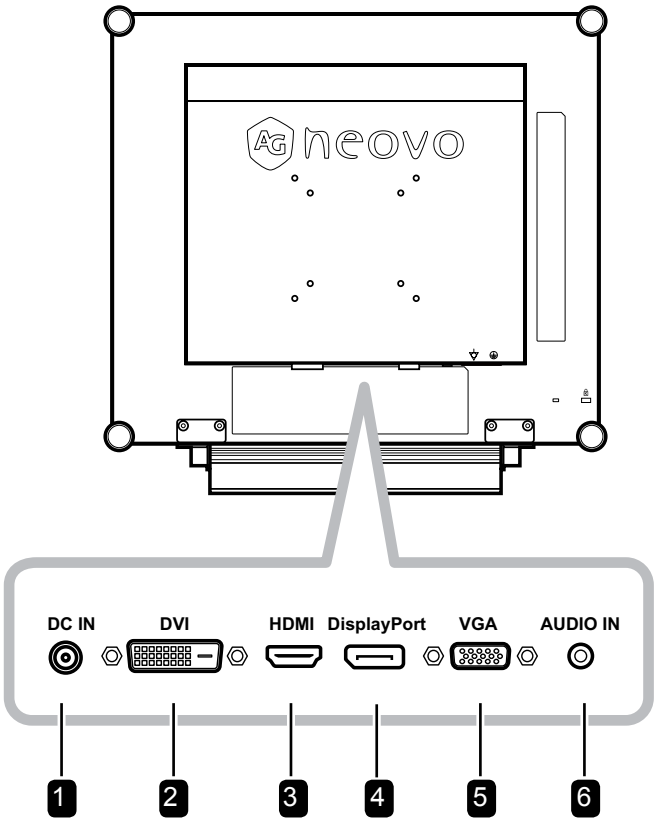
7 RIGHT
- Press to increase the volume.
- During OSD menu selection, press to select an option and adjust the settings.

8 AUTO
- For VGA input signal source, press to perform auto adjustment.
- During OSD menu selection, press to close the OSD menu or exit a submenu.

9 POWER / LED indicator
- Press to turn the power on or off.
  Green - Power on
  Amber - Standby mode
  Off - Power off

10 EcoSmart sensor: Detect ambient lighting conditions and automatically adjust the brightness levels. Refer to page 40 “ECO SMART” for more information.

1.3.2 Rear View



1 DC power input

Use to connect the power adapter.

2 DVI connector

Use to connect a PC using DVI cable for digital input signal.

3 HDMI connector

Use to connect an input device using HDMI cable for digital input signal.

4 DisplayPort connector

Use to connect a PC or video device using a displayport cable for digital input signal.

5 VGA connector

Use to connect a PC using a VGA cable for analogue input signal.

6 Audio port

Use to connect an audio cable for the PC's audio input.

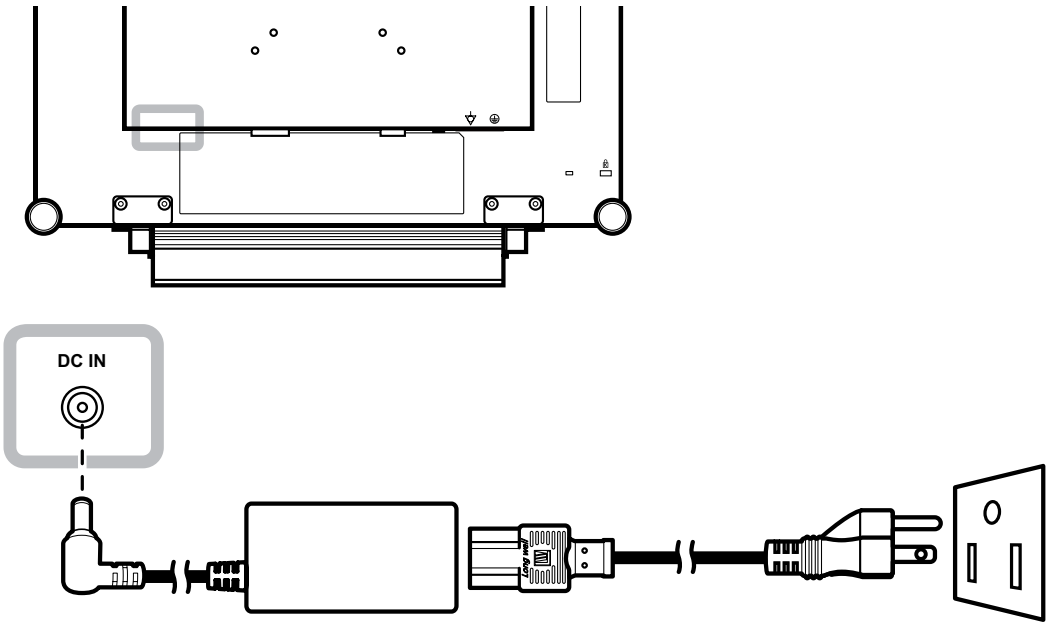
CHAPTER 2: MAKING CONNECTIONS

2.1 Connecting the Power

1 Connect the power cord to the power adapter.

2 Connect the power adapter to the DC power input at the rear of the LCD display.

3 Connect the power cord plug to a power outlet or a power supply.



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.

Caution:

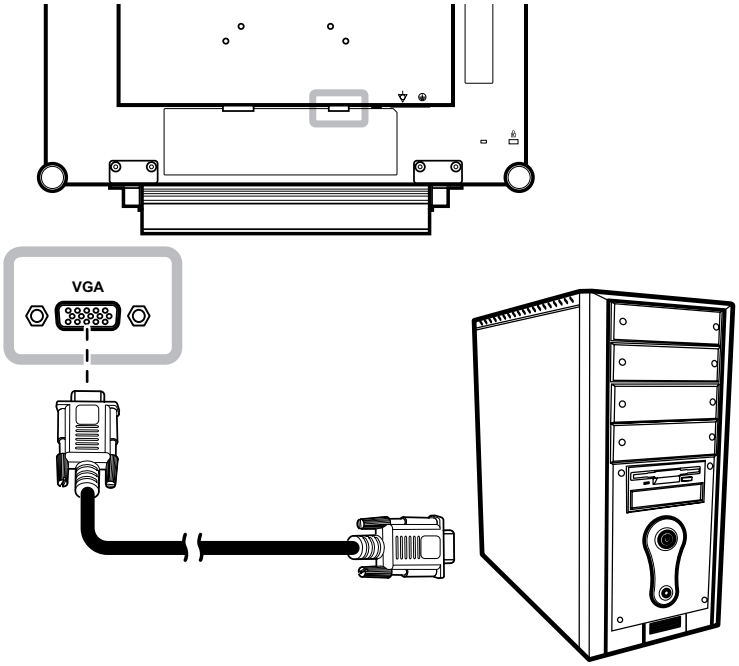
- When unplugging the power cord, hold the power cord by the plug head. Never pull by the cord.

2.2 Connecting Input Source Signals

2.2.1 Connecting a Computer

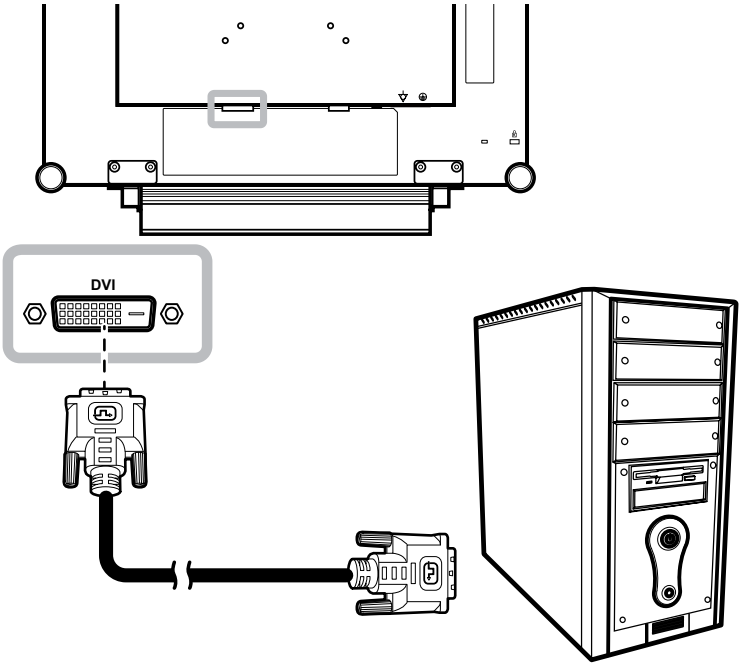
Using VGA Cables

Connect one end of a D-sub cable to the VGA connector of the LCD display and the other end to the D-sub connector of the computer.



Using DVI Cables

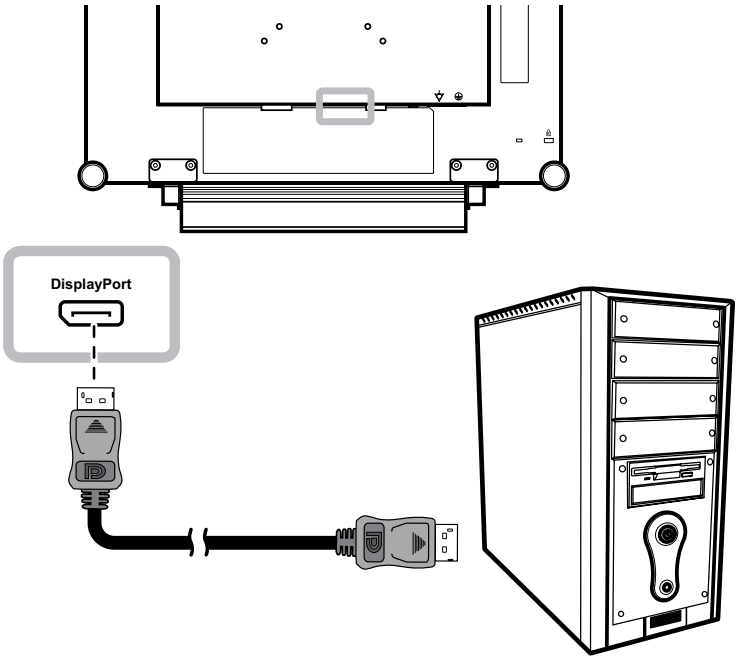
Connect one end of a DVI cable to the DVI connector of the LCD display and the other end to the DVI connector of the computer.



MAKING CONNECTIONS

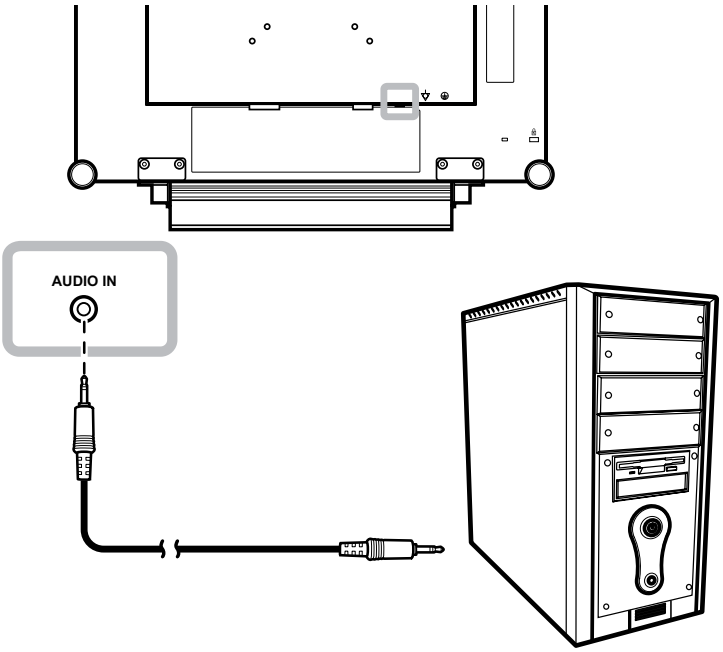
Using DisplayPort Cables

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



Connecting an Audio Device

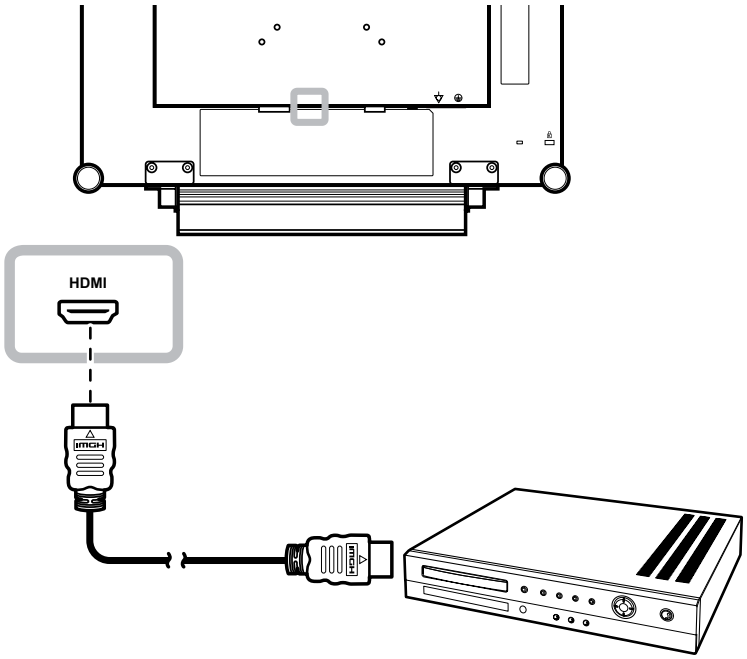
Connect one end of an audio cable to the audio port at the rear of the LCD display and the other end to the audio out port of the computer.



2.2.2 Connecting a Video Device

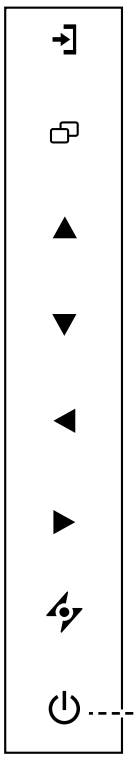
Using HDMI Cables

Connect one end of an HDMI cable to the HDMI connector of the LCD display and the other end to the HDMI connector of your device.



CHAPTER 3: USING THE LCD DISPLAY

3.1 Turning on the Power



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

2 Touch the **POWER** button to turn the LCD display on.

The LED indicator turns GREEN.

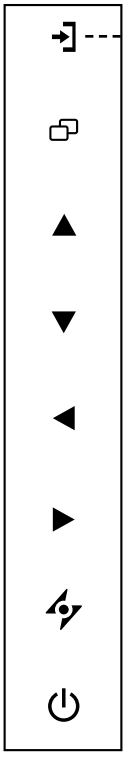
When the LCD display is turned on, touch the POWER button to turn off the LCD display.

The LED indicator turns off.

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



1 Touch the button to call out the input source menu.

2 Touch the ▲ or ▼ button to highlight an input source.

3 Touch the ▶ button to select the input source.

Notes:

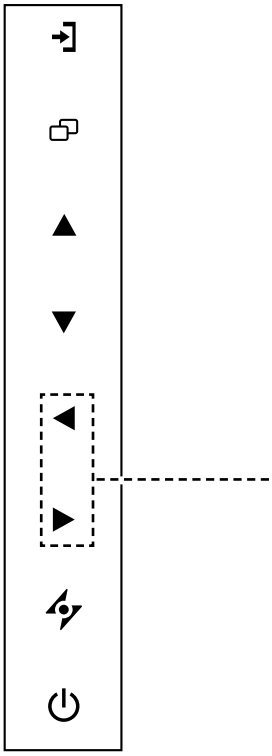
- This function works only if **SOURCE DETECT** is set to **MANUAL**. Refer to page 38.
- After selecting an input source signal, the input source signal message appears on the screen briefly.

  For example, HDMI is selected the following message is displayed.

- 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.

- If the resolution or the graphics card of the connected computer is set too high, the input out of range message is displayed.

3.3 Adjusting the Volume



Adjusting the Volume

1 Touch either the ◀ or ▶ buttons to call out the volume bar.

2 Touch the ▶ button to increase volume.
Touch the ◀ button to decrease volume.

To mute the audio, set the volume to 0.

3.4 Locking the OSD Menu

Lock the OSD menu to protect the LCD display from unauthorised users or from accidentally pressing the keypad.

To lock the OSD, press and hold the keypad buttons listed below for at least 5 seconds or until the

message appears.

When the OSD is locked, all keypad buttons are inactivated.

Type of OSD Lock	Lock Operation	Unlock Operation
Lock all buttons	Touch and hold the ▶, ▲, and ▼ buttons for 5 seconds.	Touch and hold the ▶, ▲, and ▼ buttons for 5 seconds or until the OSD menu appears.
Lock all buttons except the **POWER** button.	Touch and hold the ◀, ▲, and ▼ buttons for 5 seconds.	Touch and hold the ◀, ▲, and ▼ buttons for 5 seconds or until the OSD menu appears.

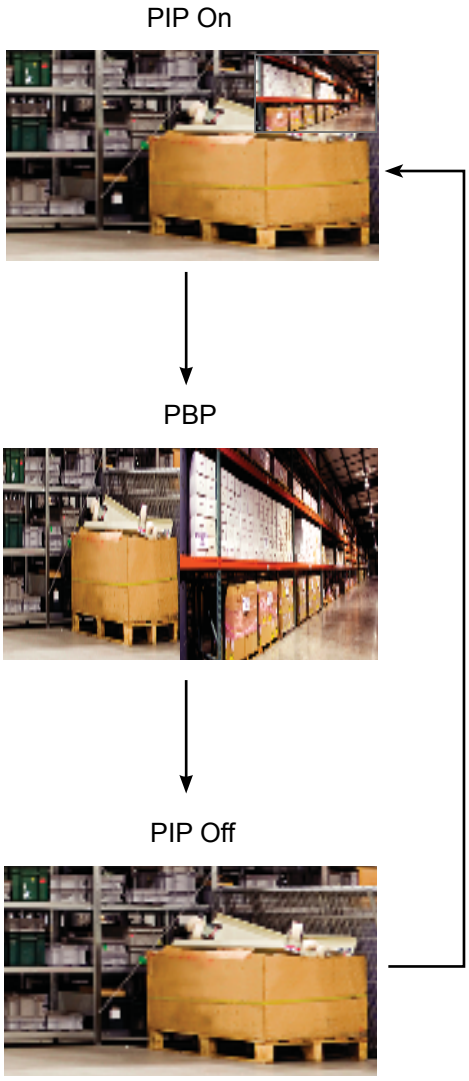
3.5 Using Picture-in-Picture (PIP)

The Picture-in-Picture (PIP) feature allows viewing of more than one input source signal on the LCD display.

3.5.1 PIP Options

Touch the ▲ button repeatedly to enable and scroll among the PIP options. Options are as follows:

- PIP On: The sub source signal is displayed within the main source signal.
- PBP (Picture-by-Picture): The main source and the sub source signals are displayed side by side with equal display size.
- PIP Off: PIP function is disabled, only the main source signal is displayed.



Note:

- The main source and sub source signals can be set in PIP Setting, see page 33.
- Some input source signal combinations do not support PIP. See PIP Compatibility table on page 34.

3.5.2 PIP Swap

The main and the sub source signals set in PIP Setting can be easily swapped using the keypad.

Touch the ▼ button to swap the main source and the sub source signals. See illustration below.

Note:

- PIP Swap can only be executed if PIP is enabled, see page 34.

3.6 Using Auto Adjustment Function

Auto Adjustment function automatically tunes the LCD display to its optimal setting, including horizontal position, vertical position, clock, and phase.

Touch the button to perform auto adjustment.

The message auto adjusting is displayed on the screen.

During auto adjustment, the screen will slightly shake for a few seconds.

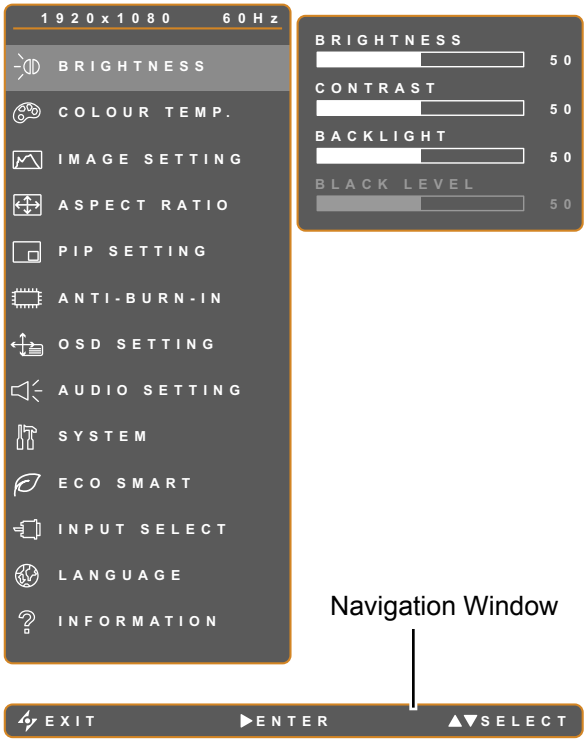
When the message disappears, auto adjustment is completed.

Note:

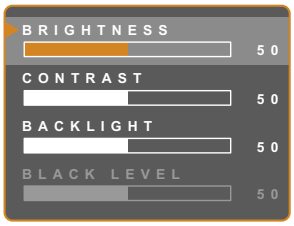
- Auto Adjustment function is available only during VGA input signals.
- It is recommended to use the auto adjustment function when using the LCD display for the first time or after a resolution or frequency change.

CHAPTER 4: ON SCREEN DISPLAY MENU

4.1 Using the OSD Menu

	Operation
1 Display the main menu screen. 	Touch ⧉.
2 Select the menu. 	**1** Touch the ▲ or ▼ button. **2** Touch the ▶ button to enter the submenu.

ON SCREEN DISPLAY MENU

		Operation
3	Select the submenu item.  The highlighted item with an orange arrow indicates the active submenu.	Touch the ▲ or ▼ button.
4	Adjust the settings.	Touch the ◀ or ▶ button.
5	Exit the submenu.	Touch or to return to the previous menu.
6	Close the OSD window.	Touch or again.

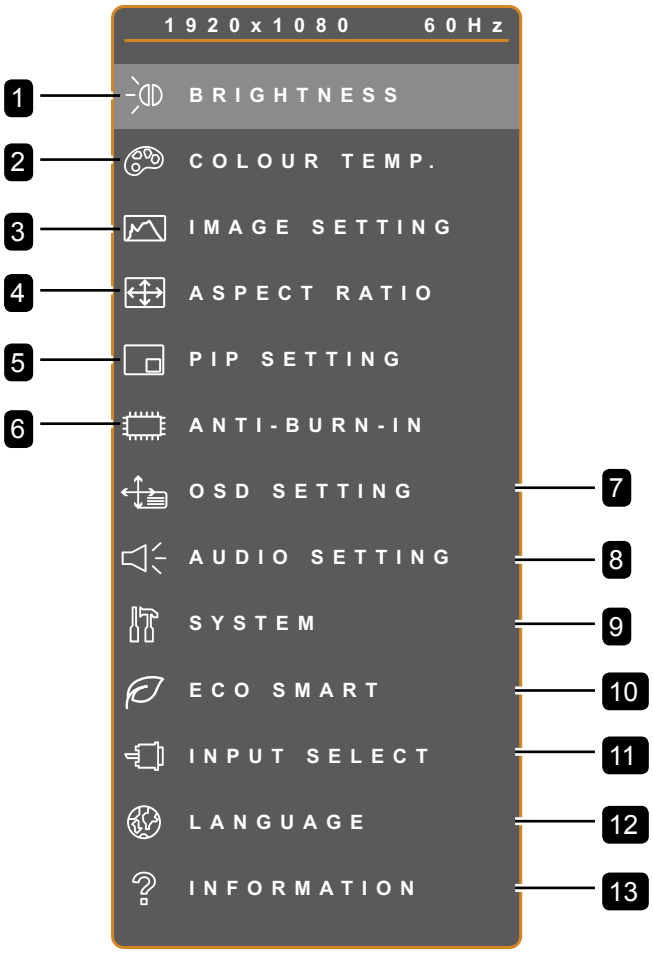
When settings are modified, all changes are saved when the user does the following:

- 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.

ON SCREEN DISPLAY MENU

4.2 OSD Menu Tree



Main Menu	Submenu	Remarks
1. BRIGHTNESS	• BRIGHTNESS • CONTRAST • BACKLIGHT • BLACK LEVEL	See page 26.
2. COLOUR TEMP.	• NEUTRAL • WARM • COOL • USER • AUTO COLOUR	See page 28.

ON SCREEN DISPLAY MENU

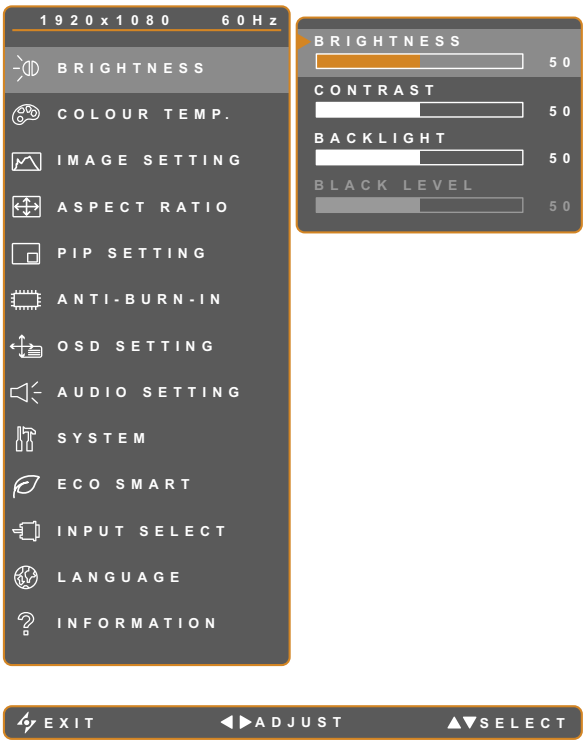
Main Menu	Submenu	Remarks
3. IMAGE SETTING	• SHARPNESS • SATURATION • TINT • GAMMA • COLOUR RANGE • NOISE REDUCTION • PICTURE MODE • H. POSITION • V. POSITION • PHASE • CLOCK	See page 29.
4. ASPECT RATIO	• FULL • REAL • ZOOM • H. ZOOM • V. ZOOM • OVERSCAN	See page 32.
5. PIP SETTING	• PIP • MAIN SOURCE • SUB SOURCE • SUB PICTURE SIZE • SUB PIC. POS. • SWAP	See page 33.
6. ANTI-BURN-IN	• ENABLE • INTERVAL (HOURS) • MODE	See page 35.
7. OSD SETTING	• TRANSPARENCY • OSD H. POSITION • OSD V. POSITION • OSD TIMER	See page 36.
8. AUDIO SETTING	• VOLUME • AUDIO • SOURCE	See page 37.

ON SCREEN DISPLAY MENU

Main Menu	Submenu	Remarks
9. SYSTEM	• POWER SAVING • SOURCE DETECT • MODE • DDC/CI • DCR • BLUE SCREEN • SIGNAL INFO • HDMI CEC • LOGO • RECALL	See page 38.
10. ECO SMART	• ENABLE • MODE • LEVEL	See page 40.
11. INPUT SELECT	• VGA • DVI • HDMI • DP	See page 41.
12. LANGUAGE	Select the OSD language: EN / FR / DE / ES / IT / PY / RO / PL / CS / NL / 簡中 / 繁中	
13. INFORMATION	Displays settings information such as Input, Resolution, Horizontal Frequency, Vertical Frequency, Timing Mode, and Firmware Version.	

CHAPTER 5: ADJUSTING THE LCD DISPLAY

5.1 BRIGHTNESS



1. Touch to call out the OSD window.
2. Select **BRIGHTNESS** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

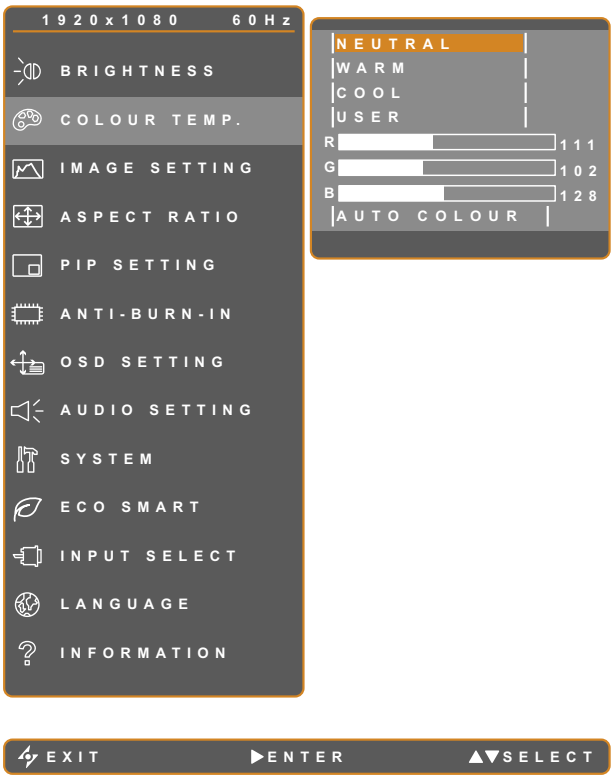
Item	Function	Operation	Range
BRIGHTNESS	Adjusts the luminance of the screen image.	Touch the ◀ or ▶ button to adjust the value.	0 to 100
CONTRAST	Adjusts the difference between the black level and the white level.		
BACKLIGHT	Adjusts the luminance of the screen image. **Note:** This menu option is not available if the ECO SMART function is enabled.		
BLACK LEVEL	Adjusts the black level of the screen image. Low brightness setting makes black colour darker.		

See comparison illustrations on page 26.

ADJUSTING THE LCD DISPLAY

	Original Setting	High Setting	Low Setting
BRIGHTNESS			
CONTRAST			
BLACK LEVEL			

5.2 COLOUR TEMP.

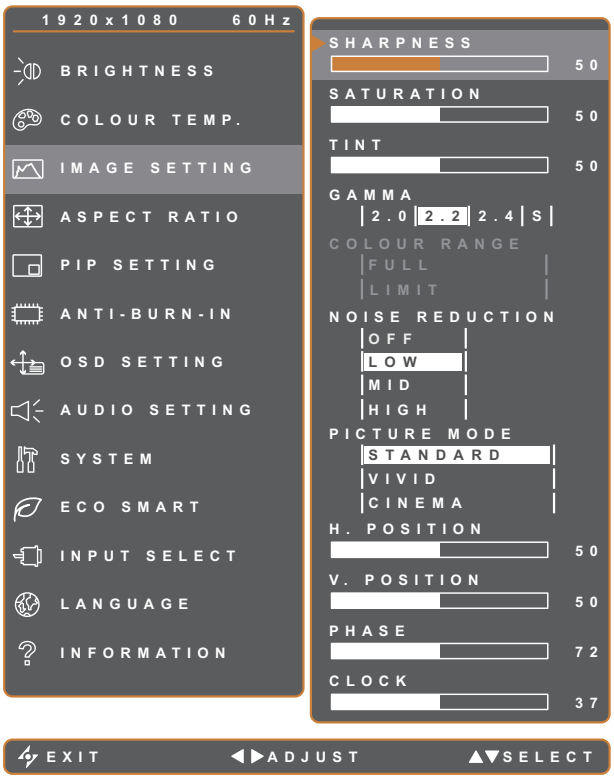


1. Touch ⧉ to call out the OSD window.
2. Select **COLOUR TEMP.** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

Item	Function	Operation	Range
COLOUR TEMP.	Provides several colour settings.	Touch the ◀ or ▶ button to select the setting.	NEUTRAL WARM COOL USER
	Colour setting can be set to: • **NEUTRAL** - commonly used for normal lighting conditions. • **WARM** - Applies a reddish tint for warmer colours. • **COOL** - Applies a bluish tint for cooler colours. • **USER** - This allows users to set the colour temperature by adjusting the R, G, B settings according to one's preference. 1 Select **USER**, and touch the ▶ button. 2 Touch the ▲ or ▼ button to select the colour you want to adjust. 3 Touch the ◀ or ▶ button to adjust the values between 0 ~ 255. **Note:** Activate **RECALL** to return the colour to its default setting.		
AUTO COLOUR	Operates the white balance and automatically adjusts the colour settings. **Note:** This menu option is only available if the input source is VGA.	Touch the ▶ button to execute the function.	-

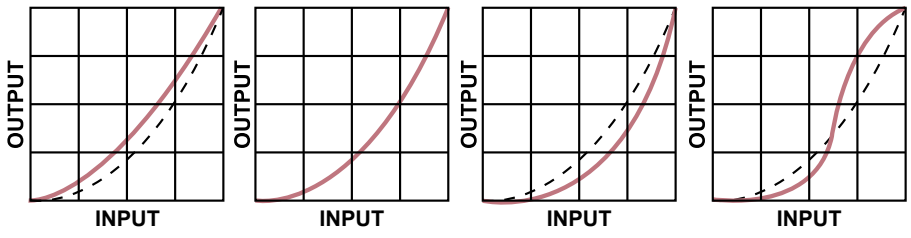
ADJUSTING THE LCD DISPLAY

5.3 IMAGE SETTING

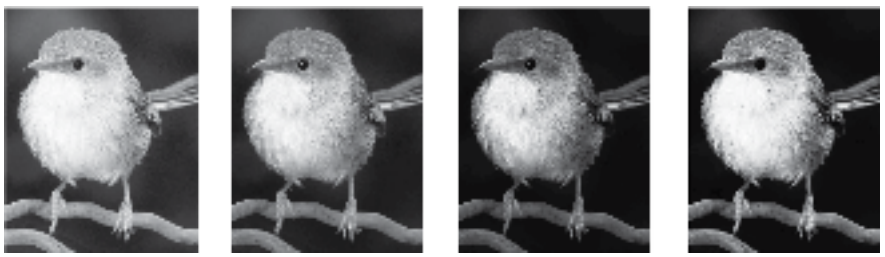


1. Touch ⧉ to call out the OSD window.
2. Select **IMAGE SETTING** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

Item	Function	Operation	Range
SHARPNESS	Adjusts the clarity and focus of the screen image.	Touch the ◀ or ▶ button to adjust the value.	0 to 100
SATURATION	Adjusts the colour saturation.		
TINT	Adjusts the colour tint.		
GAMMA	Adjusts the non-linear setting for picture luminance and contrast.	Touch the ◀ or ▶ button to select the setting.	2.0 2.2 2.4 S

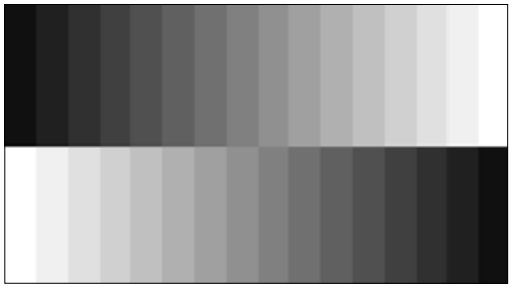
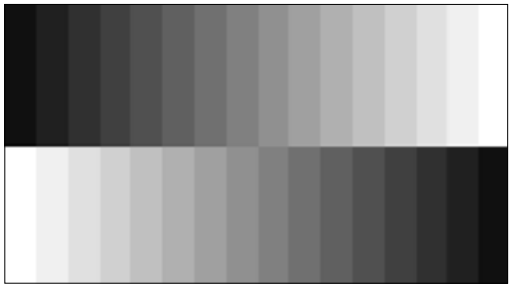
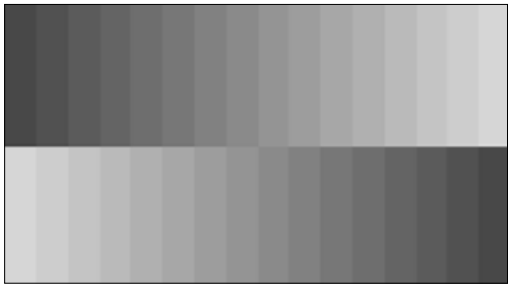


Display Gamma 2.0 | Display Gamma 2.2 | Display Gamma 2.4 | Display Gamma S



ADJUSTING THE LCD DISPLAY

<table>
<tr><th>Item</th><th>Function</th><th>Operation</th><th>Range</th></tr>
<tr><td rowspan="4">COLOUR RANGE</td><td>Adjusts black and white levels for video.

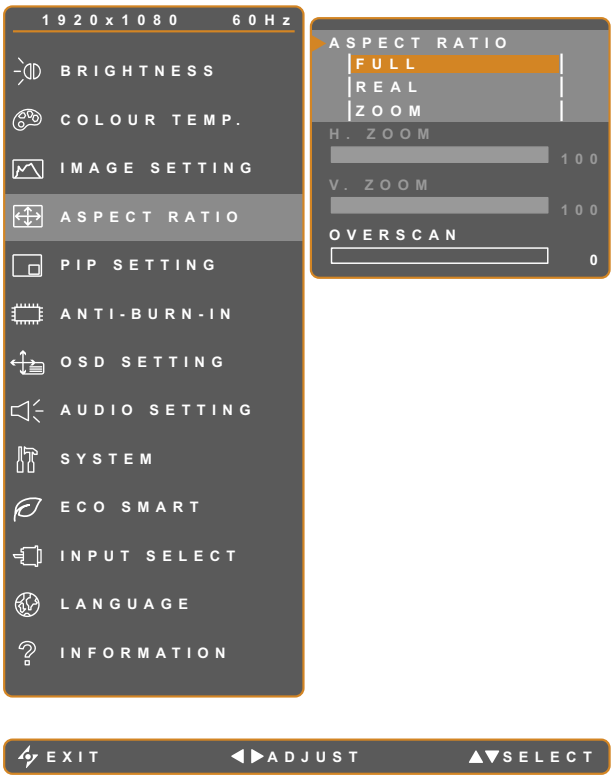
Note: This menu option is only available if the input source is HDMI.</td><td>Touch the ◀ or ▶ button to select the setting.</td><td>FULL
LIMIT</td></tr>
<tr><td colspan="3">Signal source from PC - PC signal at a full range (Grayscale 0-255) state:
 
Monitor OSD colour range: Full *Please select</td><td>
Monitor OSD colour range: Limit</td></tr>
<tr><td colspan="3">Signal source from Video - Video signal at a limited range (Grayscale 16-235) state:
 
Monitor OSD colour range: Limit *Please select</td><td> 
Monitor OSD colour range: Full</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td rowspan="3">NOISE REDUCTION</td><td>Adjusts the noise reduction to help remove noise from images. This helps produce clearer and crisper images.</td><td>Touch the ◀ or ▶ button to select the setting.</td><td>OFF
LOW
MID
HIGH</td></tr>
<tr><td colspan="3">
Noise Reduction Off</td><td>
Noise Reduction On</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td>PICTURE MODE</td><td>Selects a predefined picture mode setting.</td><td>Touch the ◀ or ▶ button to select the setting.</td><td>STANDARD
VIVID
CINEMA</td></tr>
</table>

ADJUSTING THE LCD DISPLAY

Item	Function	Operation	Range
H. POSITION (Horizontal Position)	Moves the screen image to the left or right.	Touch the ◀ or ▶ button to adjust the value.	0 to 100
V. POSITION (Vertical Position)	Moves the screen image up or down.		
PHASE	Adjusts the phase timing to synchronise with the video signal. **Note:** This menu option is only available if the input source is VGA.		
CLOCK	Adjusts the frequency timing to synchronise with the video signal. **Note:** This menu option is only available if the input source is VGA.		

ADJUSTING THE LCD DISPLAY

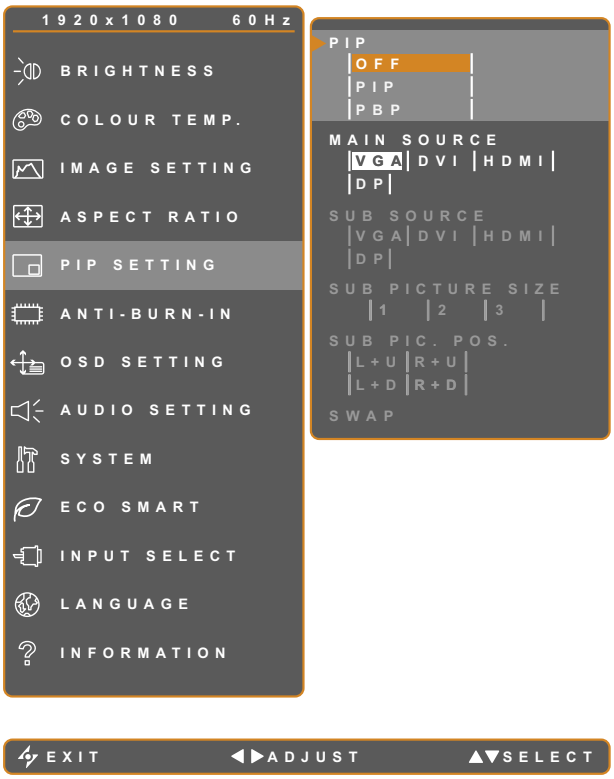
5.4 ASPECT RATIO



1. Touch ⧉ to call out the OSD window.
2. Select **ASPECT RATIO** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

Item	Function	Operation	Range
ASPECT RATIO	Adjusts the aspect ratio of the screen image.	Touch the ◀ or ▶ button to select the setting.	FULL REAL ZOOM
H. ZOOM (Horizontal Zoom)	Adjusts the horizontal zoom. **Note:** This menu option is only available if the **ASPECT RATIO** setting is to **ZOOM**.	Touch the ◀ or ▶ button to adjust the value.	0 to 100
V. ZOOM (Vertical Zoom)	Adjusts the vertical zoom. **Note:** This menu option is only available if the **ASPECT RATIO** setting is to **ZOOM**.		
OVERSCAN	Adjusts the overscan setting to fix the cut-off screen edges.		0 to 15

5.5 PIP SETTING



1. Touch to call out the OSD window.
2. Select **PIP SETTING** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

Item	Function	Operation	Range
PIP	Allows you to select the PIP setting or disable PIP.	Touch the ◀ or ▶ button to select the value.	OFF PIP PBP
	PIP can be set to: • **OFF** - Disables PIP. • **PIP** - The sub source image is within the main source image. • **PBP** - The main source and sub source images are displayed side by side.		
MAIN SOURCE	Allows you to select the main source signal.	Touch the ◀ or ▶ button to select the setting.	VGA DVI HDMI DP
SUB SOURCE	Allows you to select the sub source signal.		

ADJUSTING THE LCD DISPLAY

Note: Any input signal may be set as the main or the sub source signal. However, some input signals are not supported to be paired together as the main and the sub source signals.

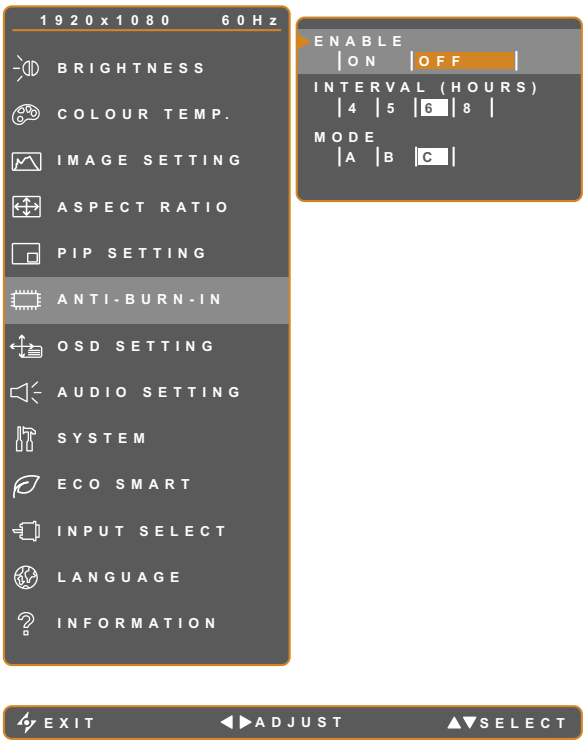
Refer to the following table for compatibility options.

Table 5.1 PIP Compatibility Table

Input Source		Main Source			
		VGA	DVI	HDMI	DP
Sub Source	VGA	X	O	O	O
	DVI	O	X	O	O
	HDMI	O	O	X	O
	DP	O	O	O	X

Item	Function	Operation	Range
SUB PICTURE SIZE (Sub Picture Size)	Allows you to select the size of the sub source image. **Note:** This menu option is only available if the **PIP** setting is to **PIP**.	Touch the ◀ or ▶ button to select the setting.	1 2 3
	The size of the sub source image can be set to: • **1** - Small image size. • **2** - Medium image size. • **3** - Large image size.		
SUB PIC. POS. (Sub Picture Position)	Allows you to select the position of the sub source image. **Note:** This menu option is only available if the **PIP** setting is to **PIP**	Touch the ◀ or ▶ button to select the setting.	L+U R+U L+D R+D
	The position of the sub source image can be set to: • **L+U** - Sets the image on the upper left corner of the screen. • **R+U** - Sets the image on the upper right corner of the screen. • **L+D** - Sets the image on the lower left corner of the screen. • **R+D** - Sets the image on the lower right corner of the screen.		
SWAP	Swaps the main source and sub source signals.	Touch the ▶ button to execute the function.	-

5.6 ANTI-BURN-IN

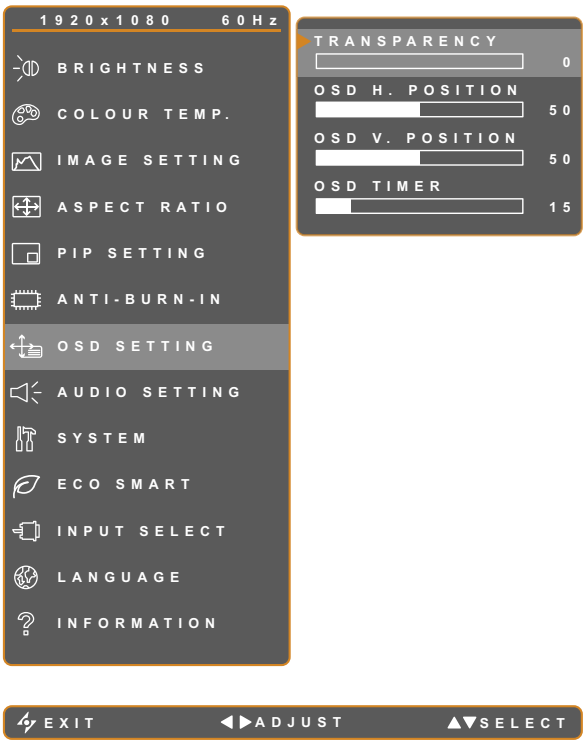


1. Touch ▭ to call out the OSD window.
2. Select **ANTI-BURN-IN** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

Item	Function	Operation	Range
ENABLE	Enables or disables Anti-Burn-In function.	Touch the ◀ or ▶ button to select the setting.	ON OFF
INTERVAL (HOURS)	Sets the interval time (hour) between activating the Anti-Burn-In function.	Touch the ◀ or ▶ button to adjust the value.	4 5 6 8
MODE	Selects the Anti-Burn-In mode.	Touch the ◀ or ▶ button to select the setting.	A B C
	Anti-Burn-In mode can be set to: • **A** - Executes fast. • **B** - Slower but more precise than mode A. • **C** - Slowest but the most precise anti-burn-in mode.		

ADJUSTING THE LCD DISPLAY

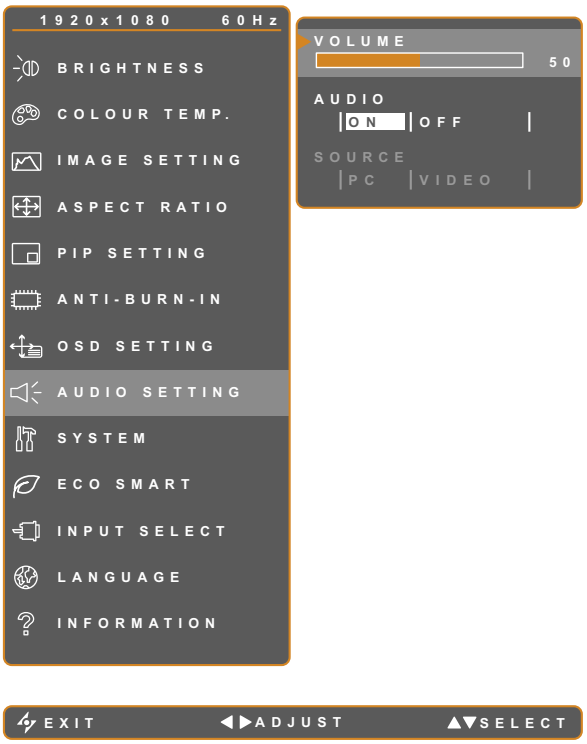
5.7 OSD SETTING



1. Touch ⧉ to call out the OSD window.
2. Select **OSD SETTING** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

Item	Function	Operation	Range
TRANSPARENCY	Adjusts the transparency level of the OSD screen.	Touch the ◀ or ▶ button to adjust the value.	0 to 100
OSD H. POSITION (Horizontal Position)	Moves the OSD window to the left or right of the screen.		
OSD V. POSITION (Vertical Position)	Moves the OSD window up or down the screen.		
OSD TIMER	Sets the length of time (in seconds) the OSD screen is displayed. When the time elapses, the OSD screen is automatically inactivated.		5 to 100

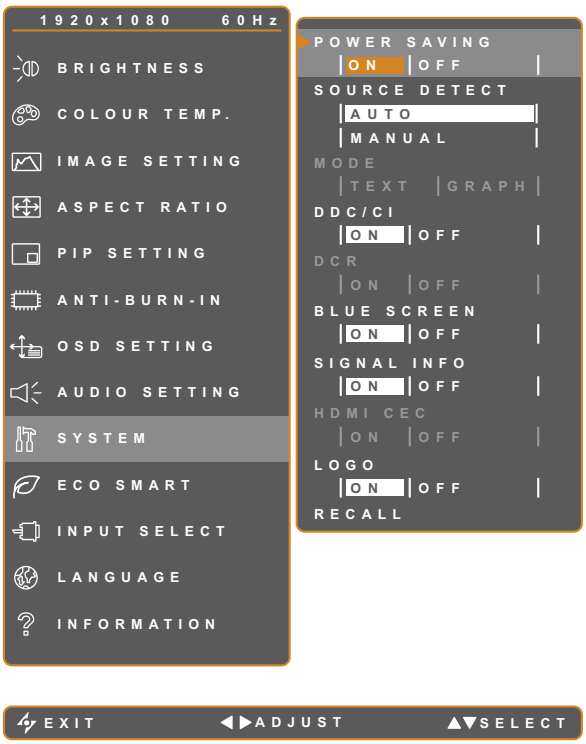
5.8 AUDIO SETTING



1. Touch to call out the OSD window.
2. Select **AUDIO SETTING** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

Item	Function	Operation	Range
VOLUME	Adjusts the volume level of the built-in speaker. **Note:** If volume is adjusted but AUDIO is set to OFF, no sound comes out from the speaker.	Touch the ◀ or ▶ button to adjust the value.	0 to 100
AUDIO	Turns the audio speaker ON or OFF.	Touch the ◀ or ▶ button to select the setting.	ON OFF
SOURCE	Selects the audio source for the PC or Video input signal. **Note:** This menu option is only available if the input source is HDMI or DP.		PC VIDEO

5.9 SYSTEM



1. Touch to call out the OSD window.
2. Select **SYSTEM** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

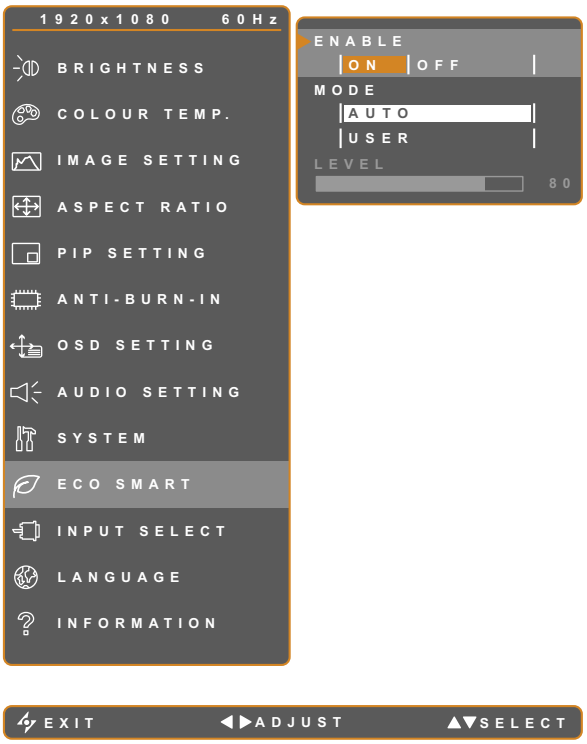
Item	Function	Operation	Range
POWER SAVING	Enables or disables power saving mode. When the LCD display turns into power saving mode, the screen turns black and the LED indicator lights AMBER. **Note:** The amount of time for the display to enter power saving varies depending on the SOURCE DETECT setting. If the SOURCE DETECT is set to AUTO, the display checks all input source signals before entering power saving mode if no signal is detected; this takes up more time. If the SOURCE DETECT is set to MANUAL, the display enters power saving mode right away.	Touch the ◀ or ▶ button to select the setting.	ON OFF
SOURCE DETECT	Sets the display to automatically or manually detect the input source signal.		AUTO MANUAL

ADJUSTING THE LCD DISPLAY

<table>
<tr><th>Item</th><th>Function</th><th>Operation</th><th>Range</th></tr>
<tr><td rowspan="2">MODE</td><td>Sets the current mode for better image display.</td><td>Touch the ◀ or ▶ button to select the setting.</td><td>TEXT
GRAPHIC</td></tr>
<tr><td colspan="3">Note: This menu option is only available if the input source is VGA with the resolution is either of the following: 640 x 350, 640 x 400, 720 x 350, or 720 x 400.
For optimal performance, select:
• TEXT - This mode is suitable for viewing text documents when the resolution is 720 x 400 or 720 x 350.
• GRAPHIC - Graphics mode is suitable for viewing images when the resolution is 640 x 350 or 640 x 400.</td></tr>
<tr><td>DDC/CI</td><td>Activates the DDC/CI protocol to allow users to configure the monitor by a software using two wires on the VGA or DVI cables.</td><td rowspan="6">Touch the ◀ or ▶ button to select the setting.</td><td rowspan="6">ON
OFF</td></tr>
<tr><td>DCR (Dynamic Contrast Ratio)</td><td>Activates DCR. This feature provides automatic adjustment of picture brightness and contrast at high speed and dynamic contrast range, such as when watching movies. DCR is suitable for indoor viewing.</td></tr>
<tr><td>BLUE SCREEN</td><td>Enables or disables the blue screen feature. If the setting is set to ON, it displays a blue screen when no signal is available.</td></tr>
<tr><td>SIGNAL INFO</td><td>Enables or disables the signal information to be displayed on the screen.</td></tr>
<tr><td>HDMI CEC</td><td>Enables or disables the HDMI CEC feature.
If the setting is set to ON, you can control the connected HDMI CEC-compatible device on the same power on or power off status.
Note: This menu option is only available if the input source is HDMI.</td></tr>
<tr><td>LOGO</td><td>Enables or disables the logo feature.
If the setting is set to ON, the AG Neovo logo is briefly displayed after the display is powered on.</td></tr>
<tr><td>RECALL</td><td>Use to recall all to default settings, except Language, PIP, and the input source.</td><td>Touch the ▶ button to execute the function.</td><td>-</td></tr>
</table>

5.10 ECO SMART

With the built-in EcoSmart sensor, users can enable the Eco Smart feature to automatically adjust the LCD screen brightness according to the ambient light. This feature comforts the eyes and helps optimise energy efficiency.

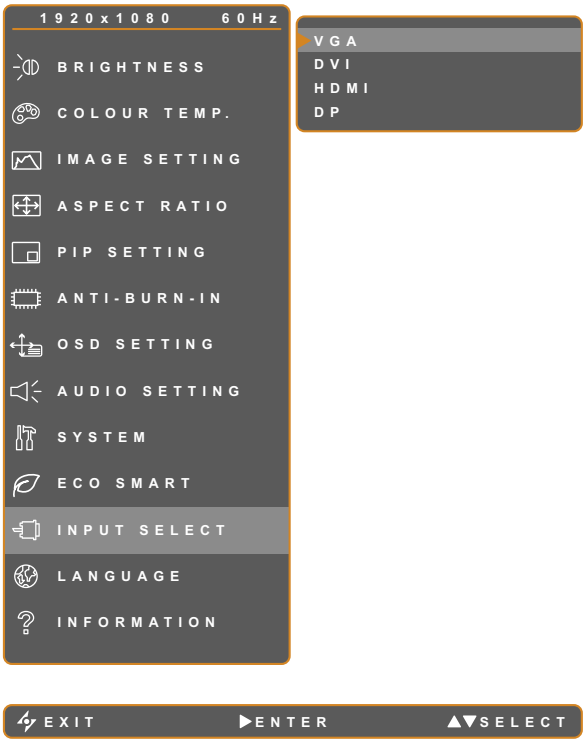


1. Touch to call out the OSD window.
2. Select **ECO SMART** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

Item	Function	Operation	Value
ENABLE	Enables or disables the Eco Smart feature.	Touch the ◀ or ▶ button to select the setting.	ON OFF
MODE	Sets the auto brightness mode.	Touch the ◀ or ▶ button to select the setting.	AUTO USER
	The mode can be set to: • **AUTO** - This mode is the default mode. The LCD brightness automatically adjusts to the ambient brightness. • **USER** - Allows you to manually adjust the LCD brightness.		
LEVEL	Allows you to set the level of LCD brightness. **Note:** This menu option is only available if the **MODE** setting is to **USER**.	Touch the ◀ or ▶ button to adjust the value.	0 to 100

ADJUSTING THE LCD DISPLAY

5.11 INPUT SELECT



1. Touch ⧉ to call out the OSD window.
2. Select **INPUT SELECT** menu, then touch the ▶ button.
3. Touch the ▲ or ▼ button to select an option.

Item	Function	Operation	Value
VGA	Sets VGA as the input source signal.	Touch the ▶ button to switch to the selected input source.	-
DVI	Sets DVI as the input source signal.		
HDMI	Sets HDMI as the input source signal.		
DP	Sets DP (DisplayPort) as the input source signal.		

CHAPTER 6: APPENDIX

6.1 Warning Messages

Warning Messages	Cause	Solution
	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.
	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 OSD has been locked by the user.	• Unlock the OSD. Refer to page 18
	The Anti-Burn-In function has been enabled by the user.	• Disable the Anti-Burn-In function. Refer to page 35.

APPENDIX

6.2 Troubleshooting

Problem	Possible Cause and Solution
No picture. • LED indicator is OFF.	• Check if the LCD display is turned ON. • Check if the power cord is properly connected to the LCD display. • Check if the power cord is plugged into the power outlet.
• LED indicator is AMBER.	• Check if the computer is turned ON. • Check if the computer is in standby mode, move the mouse or press any key to wake up the computer.
Image position is incorrect.	• Adjust the H. POSITION and V. POSITION values. See IMAGE SETTING on page 29.
The displayed texts are blurry.	• For VGA input, touch the button on the keypad to auto-adjust the display. • Adjust the IMAGE SETTING (see page 29).
The OSD menu can't be called out.	• The OSD is locked. To unlock the OSD, see page 18.
Red, blue, green, white dots appear on screen.	• 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.
No audio output.	• Check if the volume is set to 0 (see page 18 or 37). • Check if the **AUDIO SETTING** > **AUDIO** setting is set to **OFF** (see page 37). • For VGA or DVI input, check the audio setting of the computer. • For HDMI or DP input, select the correct audio input source (see page 37).
PIP mode does not work.	• The main and sub input source signals are not compatible to be displayed together in PIP mode. Check the PIP Compatibility Table for details (see page 34).
Cannot adjust the backlight setting.	• The Eco Smart feature is enabled. Set the **ECO SMART** > **ENABLE** setting to **OFF** to disable the Eco Smart feature (see page 40).
The displayed picture looks distorted.	• Adjust the aspect ratio (see page 32).
Dew formed on or inside the LCD display.	• This normally happens when the LCD display is moved a cold room to a hot room temperature. Do not turn ON the LCD display, wait for the dew condensation to disappear.

APPENDIX

Problem	Possible Cause and Solution
Mist formed inside the glass surface.	• This happens due to humid weather conditions. This is a normal occurrence. The mist will disappear after a few days or as soon as the weather stabilizes.
Faint shadows from a static image appear on the screen.	• Turn off the LCD display for extended periods of time. • Use a screen saver or a black and white image and run it for extended periods of time.

APPENDIX

6.3 Transporting the LCD Display

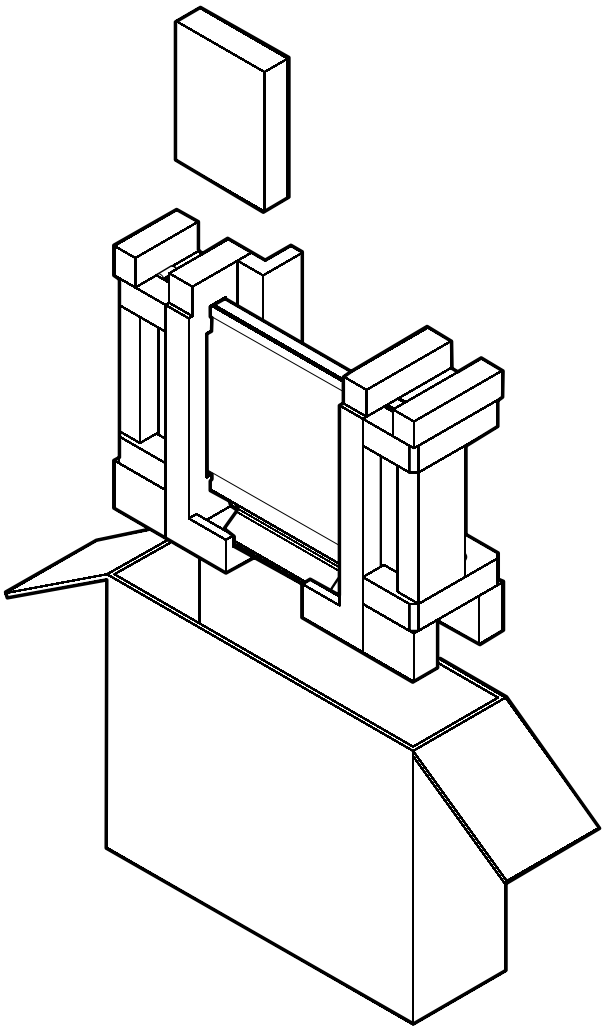
To transport the LCD display for repair or shipment, place the display in its original packaging carton.

1 Put all the accessories in the box (if necessary). Place the two foam cushions on each side of the LCD display for protection.

2 Place the LCD display down in the box.

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

4 Close and tape the box.



CHAPTER 7: SPECIFICATIONS

7.1 Display Specifications

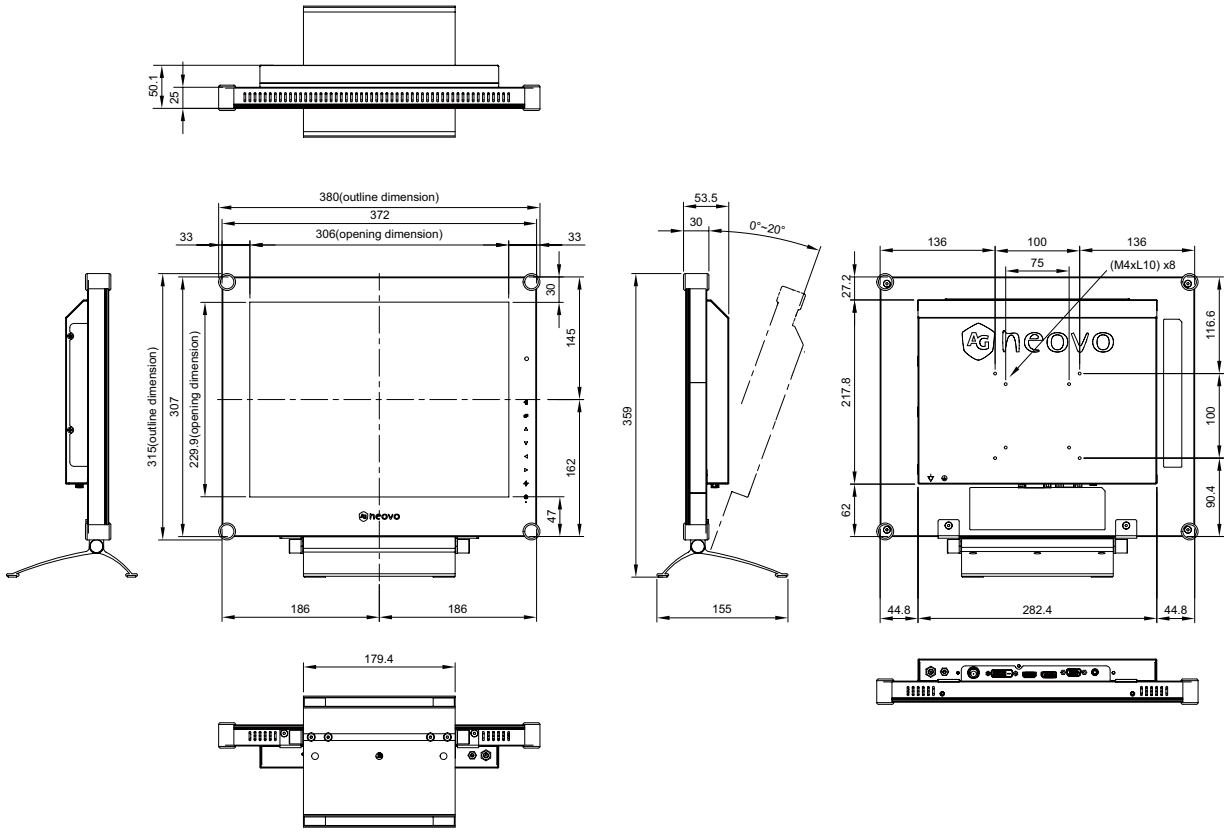
		X-15E	X-17E	X-19E
Panel	Panel Type	LED-Backlit TFT LCD (VA Technology)	LED-Backlit TFT LCD (TN Technology)	LED-Backlit TFT LCD (TN Technology)
	Panel Size	15.0”	17.0”	19.0”
	Max. Resolution	XGA 1024 x 768	SXGA 1280 x 1024	SXGA 1280 x 1024
	Pixel Pitch	0.297 mm	0.264 mm	0.294 mm
	Brightness	300 cd/m^2	250 cd/m^2	250 cd/m^2
	Contrast Ratio	20,000,000:1 (DCR)	20,000,000:1 (DCR)	20,000,000:1 (DCR)
	Viewing Angle (H/V)	176°/176°	170°/160°	170°/160°
	Display Colour	16.2M	16.7M	16.7M
	Response Time	5 ms	3 ms	3 ms
Frequency (H/V)	H Freq.	24 kHz-83 kHz	24 kHz-83 kHz	24 kHz-83 kHz
	V Freq.	50 Hz-75 Hz	50 Hz-75 Hz	50 Hz-75 Hz
Input	DisplayPort	x 1	x 1	x 1
	HDMI	1.4 x 1	1.4 x 1	1.4 x 1
	DVI	24-Pin DVI-D x 1	24-Pin DVI-D x 1	24-Pin DVI-D x 1
	VGA	15-Pin D-Sub x 1	15-Pin D-Sub x 1	15-Pin D-Sub x 1
Audio	Audio In	Stereo audio jack for PC (3.5 mm) x 1	Stereo audio jack for PC (3.5 mm) x 1	Stereo Audio Jack (3.5 mm) x 1
	Internal Speakers	2W x 2	2W x 2	2W x 2
Power	Power Supply	External	External	External
	Power Requirements	DC 12V, 1.49A	DC 12V, 1.58A	DC 12V, 1.72A
	On Mode	12W (On)	14W (On)	15W (On)
	Stand-by Mode	< 0.5W	< 0.5W	< 0.5W
	Off Mode	< 0.5W	< 0.5W	< 0.5W
NeoV™ Optical Glass	Thickness	3.0 mm (0.12”)	3.0 mm (0.12”)	3.0 mm (0.12”)
	Reflection Rate	< 1%	< 1%	< 1%
	Transmission Rate	> 97%	> 97%	> 97%
	Hardness	> 9H	> 9H	> 9H
Operating Conditions	Temperature	0°C-40°C (32°F-104°F)	0°C-40°C (32°F-104°F)	0°C-40°C (32°F-104°F)
	Humidity	10%-90% (non-condensing)	10%-90% (non-condensing)	10%-90% (non-condensing)
Storage Conditions	Temperature	-20°C-60°C (-4°F-140°F)	-20°C-60°C (-4°F-140°F)	-20°C-60°C (-4°F-140°F)
	Humidity	5%-95% (non-condensing)	5%-95% (non-condensing)	5%-95% (non-condensing)
Mounting	VESA FPMPMI	Yes (100 x 100 mm & 75 x 75 mm)	Yes (100 x 100 mm & 75 x 75 mm)	Yes (100 x 100 mm & 75 x 75 mm)
Stand	Tilt	0° to 20°	0° to 22°	0° to 22°
Security	Kensington Security Slot	Yes	Yes	Yes
Dimensions	Product with Base (W x H x D)	380.0 x 359.0 x 155.0 mm (15.0” x 14.1” x 6.1”)	409.4 x 398.2 x 175.0 mm (16.1” x 15.7” x 6.9”)	445.4 x 420.2 x 175.0 mm (17.5” x 16.5” x 6.9”)
	Packaging (W x H x D)	470.0 x 460.0 x 199.0 mm (18.5” x 18.1” x 7.8”)	506.0 x 506.0 x 225.0 mm (19.9” x 19.9” x 8.9”)	552.0 x 526.0 x 225.0 mm (21.7” x 20.7” x 8.9”)
Weight	Product with Base	4.6 kg (10.1 lb)	6.0 kg (13.2 lb)	6.8 kg (15.0 lb)
	Packaging	5.8 kg (12.8 lb)	7.5 kg (16.1 lb)	8.5 kg (18.7 lb)

Note:

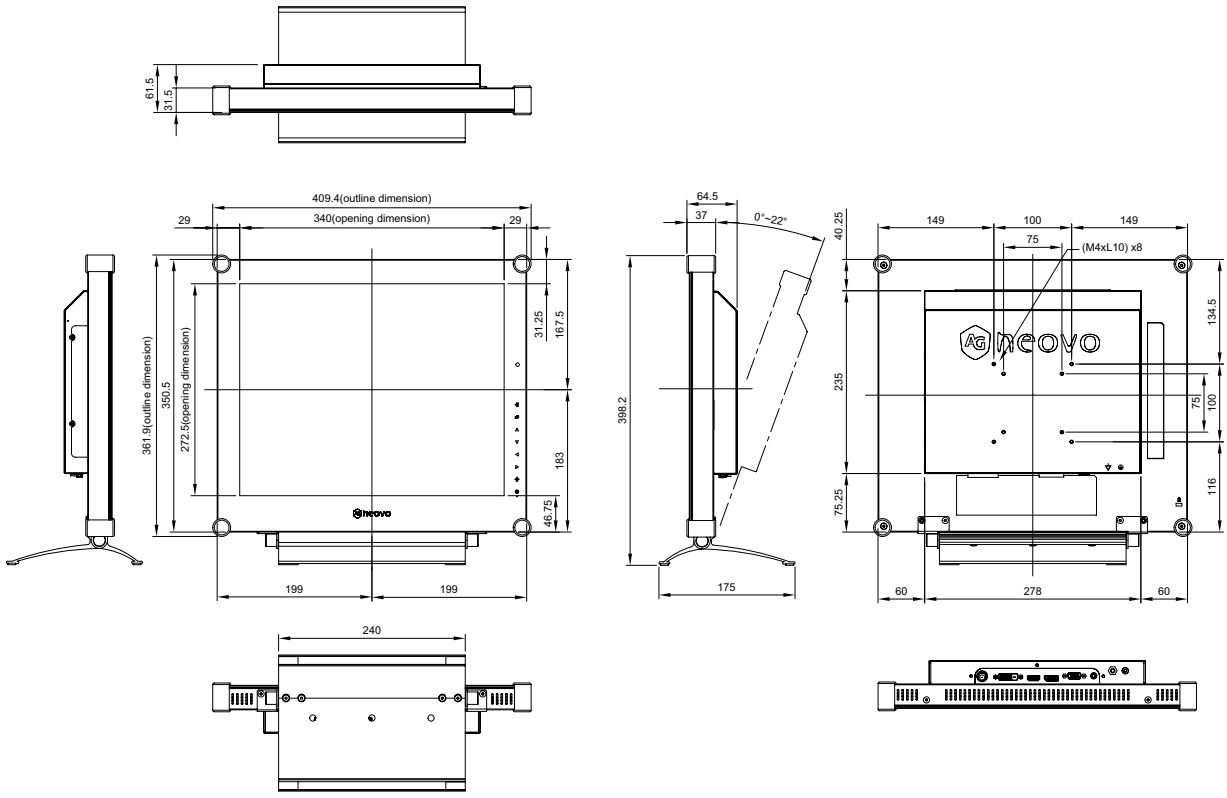
- All specifications are subject to change without prior notice.

7.2 Display Dimensions

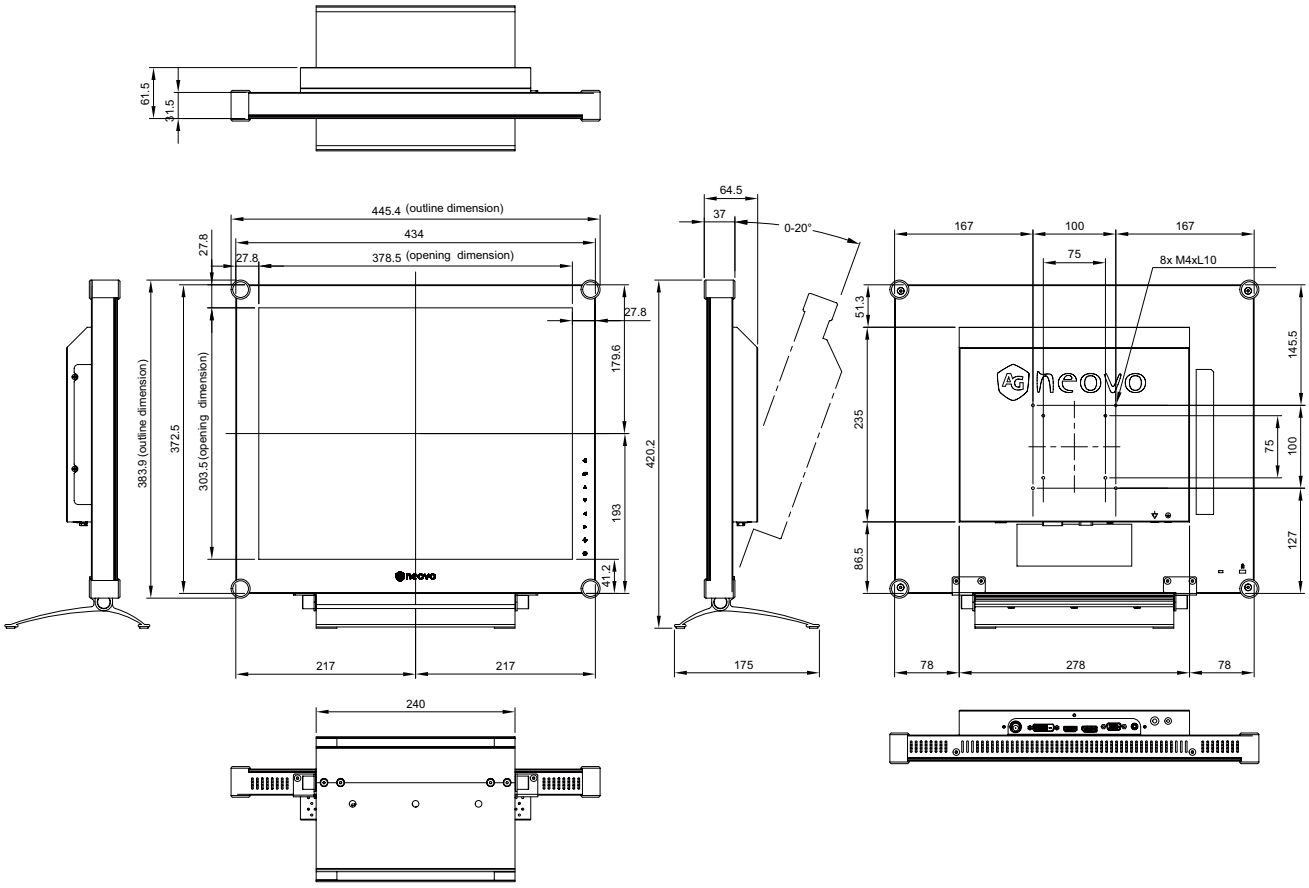
7.2.1 X-15E Dimensions



7.2.2 X-17E Dimensions



7.2.3 X-19E Dimensions



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