



THE DISPLAY CHOICE
OF PROFESSIONALS

**RX-2402 LCD Monitor** 

<u>User Manual</u>

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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**

#### **WEEE**

Disposal of Waste Equipment by Users in Private Household in the European Union.



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

For Private Households in the European Union. To help conserve natural resources and ensure the product is recycled in a manner that protects human health and the environment, we would like to bring your attention to the following:

- The crossed-out dustbin on the device or outer packaging indicates the product is compliant with European WEEE (Waste Electrical and Electronic Equipment) Directive
- · Always dispose of the old devices separately from household waste
- Batteries should be removed beforehand and disposed separately to the right collection system
- You are responsible with regard to the deletion of personal data on old devices before disposal
- · Private households can hand in their old devices free of charge
- For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product

## **PRECAUTIONS**







#### 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
  www.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**

**~=**8

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<sup>™</sup> 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.

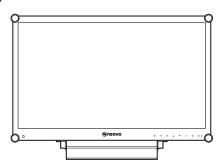
There are millions of micro transistors inside the LCD display. It is normal for a few transistors to be damaged and to produce spots. This is acceptable and is not considered a failure.

## **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.





Quick Start Guide

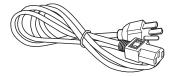


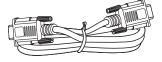
Power adapter



Power cord







Audio cable







### Note:

Must use only the supplied power adapter:

 DELTA ELECTRONICS, INC. Model no.: ADP-40DD-B Rating: 12V/3.33A

#### Note:

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

## 1.2 Wall Mounting Installation Preparation

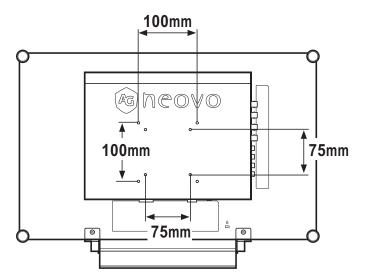
### 1.2.1 Wall Mounting

#### 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.



#### 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.

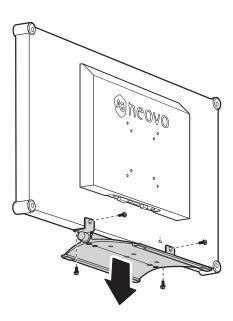
#### Note:

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.

## 1.2.2 Removing the Base Stand

- 1 Lay the LCD display face down on a flat even surface.
- 2 Remove the screws\* securing the base stand from the LCD display.
- 3 Detach the base stand.

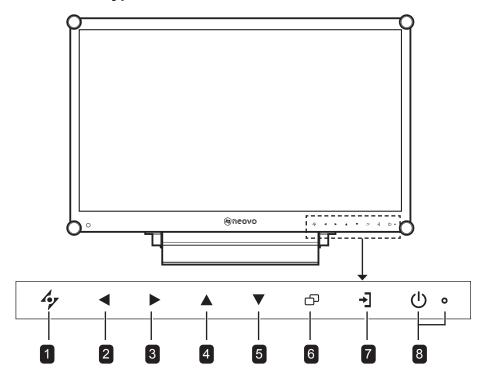


### Note:

(\*) The screw size is M4 x 10mm.

### 1.3 LCD Display Overview

#### 1.3.1 Front View and Keypad Buttons



#### 1 AUTO

#### Hot Key: Auto Adjustment/Rotate

- For VGA input signal source, press to perform auto adjustment.
- Press for 3 seconds to enable the Rotate function.
- When OSD menu is ON, press to close the OSD menu or exit a submenu.

#### 2 LEFT

#### Hot Key: Audio Volume Adjustment

- Press to display the volume bar. Then press the LEFT key to decrease the volume.
- When OSD menu is ON, press to select an option or adjust the settings.

#### 3 RIGHT

#### Hot Key: Screen Freeze

- Press to activate the screen freeze function.
   To deactivate, press any key except for the Power key.
- When the volume bar appears, press to increase the volume.
- When OSD menu is ON, press to select and option, adjust the settings, or enter the submenu.

#### 4 UP

#### Hot Key: PIP/PBP Select

- Press repeatedly to select PIP/PBP option (PIP  $\rightarrow$  PBP  $\rightarrow$  OFF).
- When OSD menu is ON, press to select an option or adjust the settings.

#### 5 DOWN

#### Hot Key: PICTURE MODE Select

- Press repeatedly to select PICTURE MODE option (Standard → CCTV → VIDEO).
- When OSD menu is ON, press to select an option or adjust the settings.
- When PIP is ON, press to swap the PIP main and sub picture.

#### 6 MENU

Press to display/hide the OSD menu.

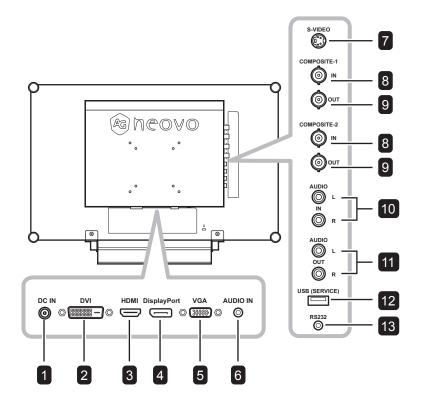
#### 7 SOURCE

Press to select the input signal source.

#### 8 POWER and LED Indicator

- · Press to turn the power on or off.
- Indicate the operating status of the LCD display:
  - Lights Green when the LCD display is turned on.
  - Lights Amber when the LCD display is in standby mode.
  - Lights Off when the LCD display is turned off.

#### 1.3.2 Rear View



- 1 DC IN

  Connect with the supplied power adaptor.
- **DVI**Connect DVI signals input.
- 3 HDMI
  Connect HDMI signals input.
- 4 DisplayPort
  Connect DisplayPort signals input.
- 5 VGA Connect VGA signals input.
- 6 AUDIO IN

  Connect audio signals input (3.5 mm Stereo Audio Jack).
- **S-VIDEO**Connect S-Video signals input.

- 8 COMPOSITE-1/COMPOSITE-2 IN
  Connect Composite (CVBS) signals input.
- 9 COMPOSITE-1/COMPOSITE-2 OUT
  Connect Composite (CVBS) signals output.
- 10 AUDIO IN

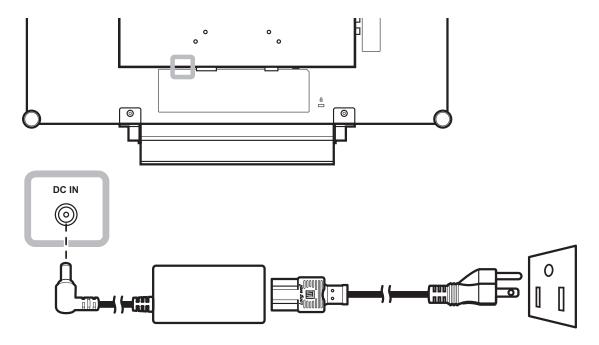
  Connect audio signals input (RCA Stereo Audio Jack).
- 11 AUDIO OUT

  Connect audio signals output (RCA Stereo Audio Jack).
- 12 USB (SERVICE)
  Connect USB 2.0 for service.
- 13 RS232
  Connect RS232 input from external equipment.

## **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:

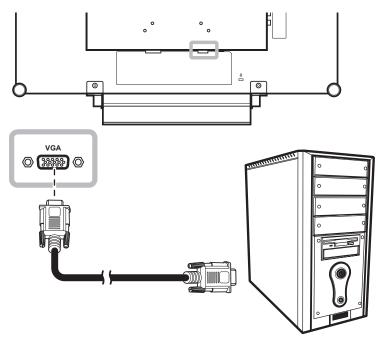
 When unplugging the power cord, hold the power cord by the plug head. Never pull by the cord.

## 2.2 Connecting Input Source Signals

### 2.2.1 Connecting a Computer

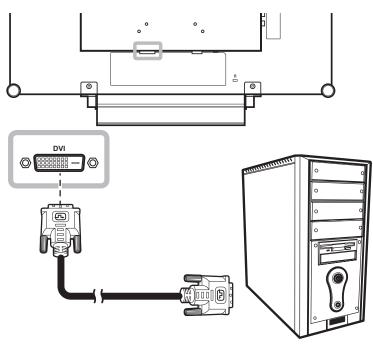
### **Using VGA Cables**

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



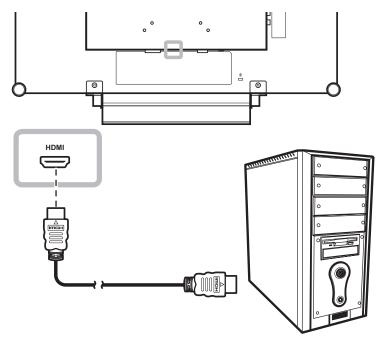
### **Using DVI Cables**

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



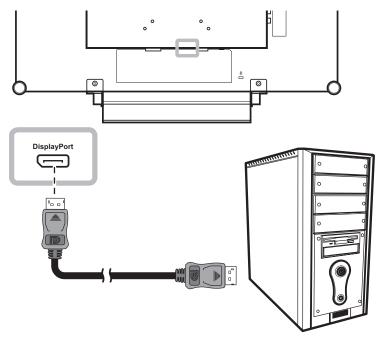
## **Using HDMI Cables**

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



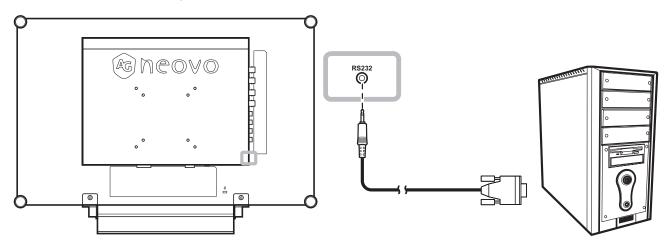
### **Using DisplayPort Cables**

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.



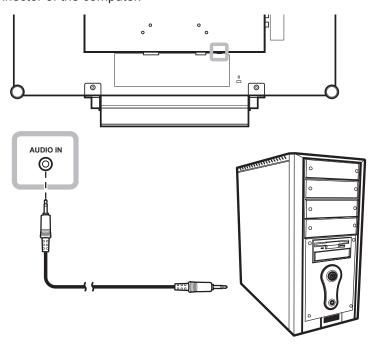
## **Using RS232 Cables**

Connect one end of an RS232 cable to the RS232 connector of the LCD display and the other end to the RS232 connector of the computer.



## **Using Audio Cables**

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



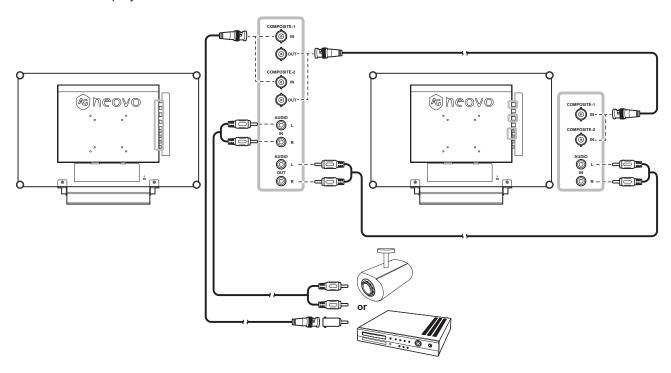
### 2.2.2 Connecting a Video Device

### **Using Composite (CVBS) Cables**

Connect one end of a Composite (CVBS) cable to the COMPOSITE 1 / COMPOSITE 2 IN connector of the LCD display and the other end to the Composite (CVBS) connectors of your device.

For audio input, connect an RCA cable to the AUDIO IN connectors of the LCD display and the audio out connector of your device.

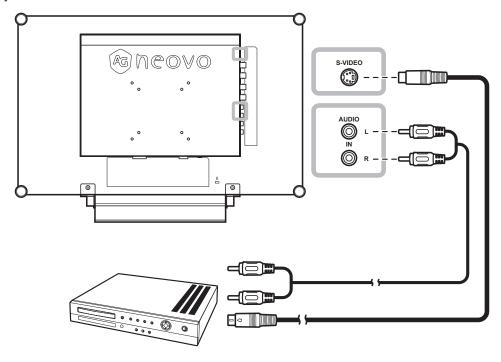
For video looping, connect one end of a Composite (CVBS) cable to the COMPOSITE 1 / COMPOSITE 2 OUT connector of the LCD display and the other end to the COMPOSITE 1 / COMPOSITE 2 IN connector of the additional display.



### **Using S-Video Cables**

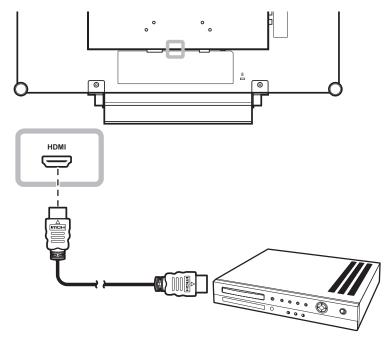
Connect one end of an S-Video cable to the S-VIDEO connector of the LCD display and the other end to the S-VIDEO connector of your device.

For audio input, connect an RCA cable to the AUDIO IN connectors of the LCD display and the audio out connector of your device.



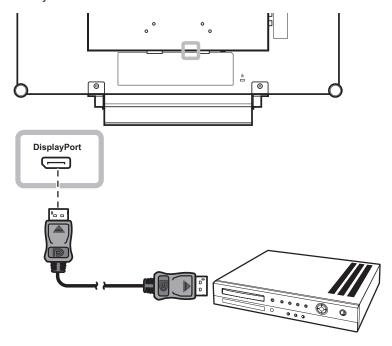
### **Using HDMI Cables**

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.



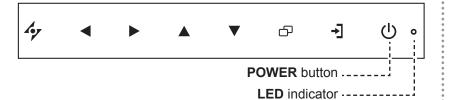
## **Using DisplayPort Cables**

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



## **CHAPTER 3: USING THE LCD DISPLAY**

### 3.1 Turning on the Power



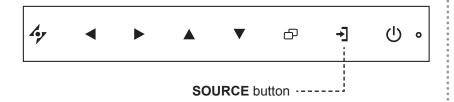
- Connect the power cord to the power adapter. Then connect the power adapter to the DC power input at the rear of the LCD display.
- 2 Press the **POWER** button to turn the LCD display on.

The LED indicator turns GREEN.

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

The LED indicator turns off.

### 3.2 Selecting the Input Source Signal



1 Press the → button to call out the input source menu.



- **2** Press the ▲ or ▼ button to highlight an input source.
- **3** Press the ▶ button to select the input source.

#### 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.

#### Notes:

 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



1 Press the ◀ button to call out the volume bar.

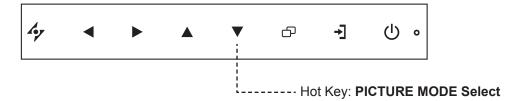


**2** Press the ▶ button to increase volume or the ◀ button to decrease volume.

### 3.3.1 Muting the Audio

Press the ▶ and ◀ buttons simultaneously to mute or unmute the audio.

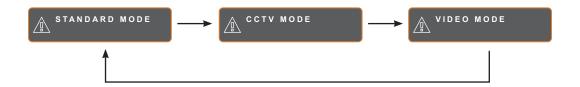
## 3.4 Choosing Your Preferred Picture Settings



Press the ▼ button repeatedly to toggle between the picture modes.

Options are as follows:

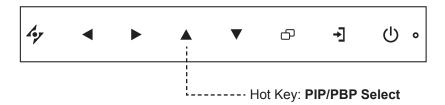
- STANDARD MODE: Default settings that suits most environments and types of video.
- · CCTV MODE: Settings adjusted for monitoring CCTV.
- · VIDEO MODE: Settings adjusted for video.



## 3.5 Using Picture-in-Picture (PIP)

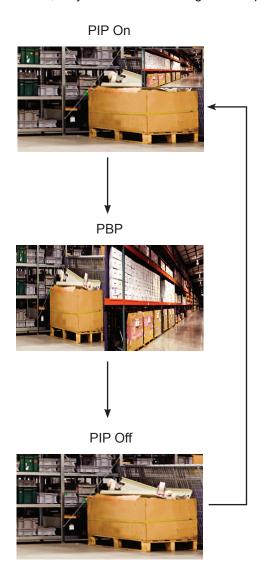
The Picture-in-Picture (PIP) and Picture-by-Picture (PIP) feature allows viewing of more than one input source signal on the LCD display.

### 3.5.1 PIP/PBP Options



Press the ▲ button repeatedly to enable and scroll among the PIP/PBP 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 39.
- Some input source signal combinations do not support PIP. See PIP Compatibility table on page 40.

### 3.5.2 PIP/PBP Swap

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



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



## 3.6 Using FREEZE Function



The FREEZE function allows you to freeze the screen image but still continues real-time playback until the image is unfreeze.

Press the ▶ button to activate screen freeze, the screen freeze message is displayed on the screen.



You can press any button to deactivate except the **POWER** button.

#### Note:

 PIP/PBP Swap can only be executed if PIP is enabled, see page 39.

## 3.7 Using Auto Adjustment Function



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

Press the 4 button to perform auto adjustment.

The message auto adjusting is displayed on the screen.

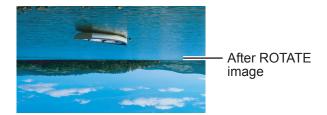


During auto adjustment, the screen will slightly shake for a few seconds.

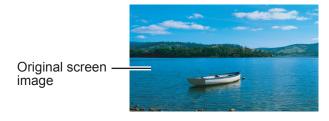
When the message disappears, auto adjustment is completed.

## 3.8 Using ROTATE Function

The ROTATE function allows you to rotate the screen image at 180°. Press the 4 button for 3 seconds to rotate the picture 180°.



After executing ROTATE, press the 4 button for 3 seconds again to rotate the picture back to its normal state.



#### 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.
- It is recommended to perform the Auto Adjustment function only when the image (nonblack) is displayed in full screen.

#### Note:

 ROTATE function can only be executed if PIP is off, see page 39.

## 3.9 Locking the OSD Menu

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

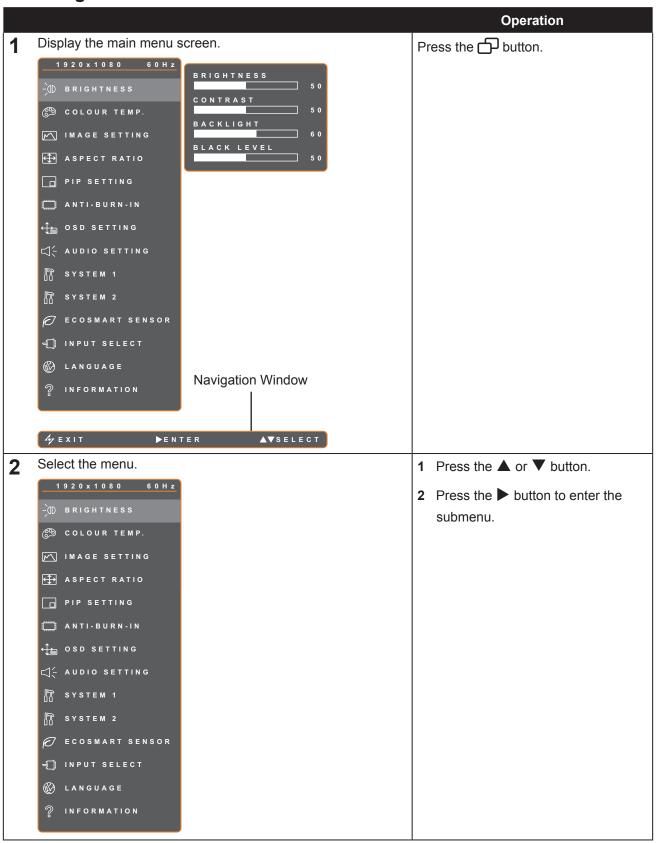
To lock the OSD, press and hold the keypad buttons listed below for at least 5 seconds or until the message appears.

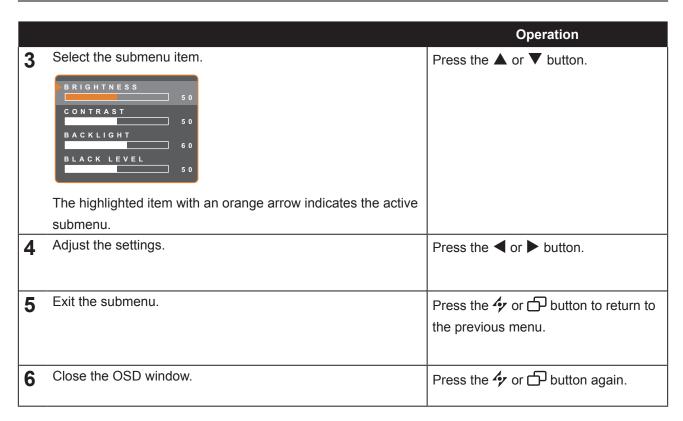
When the OSD is locked, all keypad buttons are inactivated.

Type of OSD Lock	Lock Operation	Unlock Operation
Lock all buttons	Press and hold the ▶, ▲, and ▼ buttons simultaneously for 5 seconds.	Do one of the following to unlock:  • Press and hold the ▶, ▲, and ▼ buttons simultaneously for 5
		seconds or until the OSD menu appears.
Lock all buttons except the <b>POWER</b> button.	Press and hold the ◀, ▲, and ▼ buttons simultaneously for 5 seconds.	<ul> <li>Press and hold the ◀, ▲, and</li> <li>▼ buttons simultaneously for 5</li> <li>seconds or until the OSD menu appears.</li> </ul>

## **CHAPTER 4: ON SCREEN DISPLAY MENU**

### 4.1 Using the OSD Menu



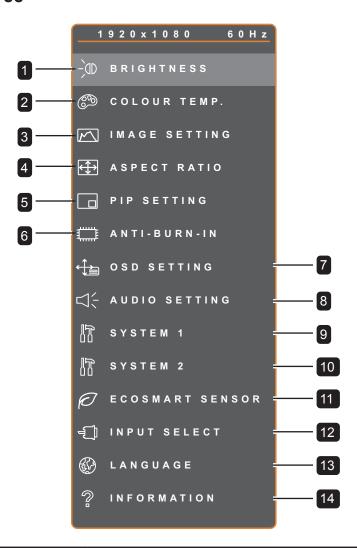


When settings are modified, all changes are saved when the user does the following:

- · 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. BRIGHTNESS	• BRIGHTNESS	See page 32.
	• CONTRAST	
	BACKLIGHT	
	BLACK LEVEL	
2. COLOUR TEMP.	• NEUTRAL	See page 34.
	• WARM	
	• COOL	
	• USER	
	AUTO COLOUR	

Main Menu	Submenu	Remarks
3. IMAGE SETTING	<ul> <li>SHARPNESS</li> <li>SATURATION</li> <li>TINT</li> <li>GAMMA</li> <li>COLOUR RANGE</li> <li>NOISE REDUCTION</li> <li>PICTURE MODE</li> <li>H. POSITION</li> <li>V. POSITION</li> <li>PHASE</li> <li>CLOCK</li> </ul>	See page 35.
4. ASPECT RATIO	<ul><li>FULL</li><li>REAL</li><li>NATIVE</li><li>ZOOM</li><li>OVERSCAN</li></ul>	See page 38.
5. PIP SETTING	PIP  MAIN SOURCE  SUB SOURCE  SUB PICTURE SIZE  SUB PIC. POS.  SWAP	See page 39.
6. ANTI-BURN-IN	ENABLE     INTERVAL (HOURS)     MODE	See page 41.
7. OSD SETTING	TRANSPARENCY OSD H. POSITION OSD V. POSITION OSD TIMER	See page 42.
8. AUDIO SETTING	VOLUME AUDIO SOURCE	See page 43.
9. SYSTEM 1	STANDBY SOURCE DETECT DDC/CI BLUE SCREEN SIGNAL INFO Alink LOGO LED RESET	See page 44.

Main Menu	Submenu	Remarks
10. SYSTEM 2	SUPER RESOLUTION	See page 46.
	OVERDRIVE     MODE	
	• MODE	
	DCR     NIGHT MODE	
	NIGHT MODE     LOW POWER	
	MONITOR ID	
	F/W UPDATE	
11. ECOSMART SENSOR	• ENABLE	See page 48.
	• MODE	
	• LEVEL	
12. INPUT SELECT	• VGA	See page 48.
	• DVI	
	• HDMI	
	DISPLAYPORT	
	COMPOSITE 1	
	COMPOSITE 2	
	• S-VIDEO	
13. LANGUAGE	Select the OSD language:	
	EN/FR/DE/ES/IT/PY/RO/PL/CS/	
	NL / 简中 / 繁中	
14. 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



- Press the button to call out the OSD window.
- Select BRIGHTNESS menu, then press the ▶ button.
- Press the ▲ or ▼ button to select an option.

Item	Function	Operation	Range
BRIGHTNESS	Adjusts the luminance of the screen image.		
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 ECOSMART SENSOR function is enabled.	Press the ◀ or ▶ button to adjust the value.	0 to 100
BLACK LEVEL	Adjusts the black level of the screen image. Low brightness setting makes black colour darker.		

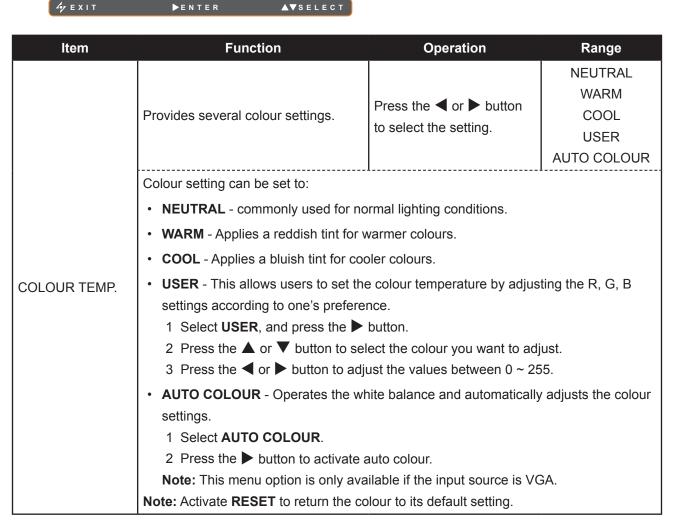
See comparison illustrations on page 33.

	Original Setting	High Setting	Low Setting
BRIGHTNESS			
CONTRAST			
BLACK LEVEL			

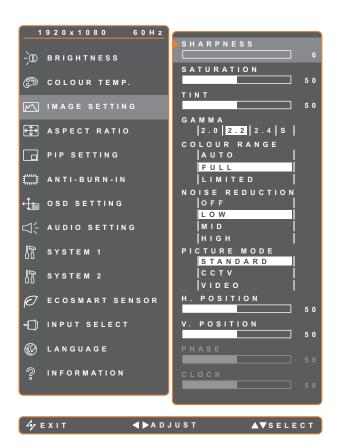
### 5.2 Colour Temp.



- Press the button to call out the OSD window.
- Select COLOUR TEMP. menu, then press the button.
- 3. Press the ▲ or ▼ button to select an option.



### 5.3 Image Setting



- Press the button to call out the OSD window.
- 2. Select **IMAGE SETTING** menu, then press the ▶ button.
- 3. Press the ▲ or ▼ button to select an option.

Item	Function	Operation	Range
SHARPNESS	Adjusts the clarity and focus of the screen image.	Press the ◀ or ▶ button to	0.4.400
SATURATION	Adjusts the colour saturation.	adjust the value.	
TINT	Adjusts the colour tint.		
GAMMA	Adjusts the non-linear setting for picture luminance and contrast.	Press the ◀ or ▶ button to select the setting.	2.0 2.2 2.4 S
	Display Gamma 2.0 Display Gam	ma 2.2 Display Gamma 2.4 Display Ga	amma S

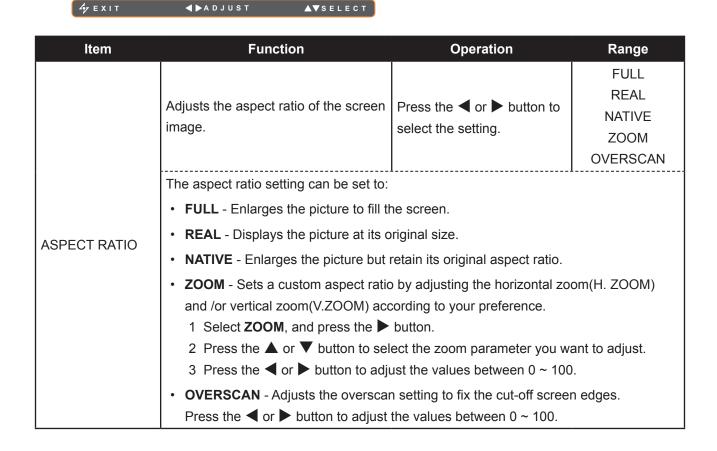
Item	Function	Operation	Range
	Adjusts black and white levels for video.  Note: This menu option is only available if the input source is HDMI.	Press the ◀ or ▶ button to select the setting.	AUTO FULL LIMITED
COLOUR RANGE	Signal source from PC - PC signal at a  Monitor OSD colour range: Full *Please  Signal source from Video - Video signal  Monitor OSD colour range: Limited *Please	select Monitor OSD colour ran	nge: Limited
NOISE REDUCTION	Adjusts the noise reduction to help remove noise from images. This helps produce clearer and crisper images.  Noise Reduction Off	Press the ◀ or ▶ button to select the setting.	OFF LOW MID HIGH
PICTURE MODE	Selects a predefined picture mode setting.	Press the ◀ or ▶ button to select the setting.	STANDARD CCTV VIDEO

Item	Function	Operation	Range
H. POSITION (Horizontal Position)	Moves the screen image to the left or right.		
V. POSITION (Vertical Position)	Moves the screen image up or down.		
PHASE	Adjusts the phase timing to synchronise with the video signal.	Press the ◀ or ▶ button to	0 to 100
	<b>Note:</b> This menu option is only available if the input source is VGA.	adjust the value.	0 10 100
CLOCK	Adjusts the frequency timing to synchronise with the video signal.		
CLOCK	<b>Note:</b> This menu option is only available if the input source is VGA.		

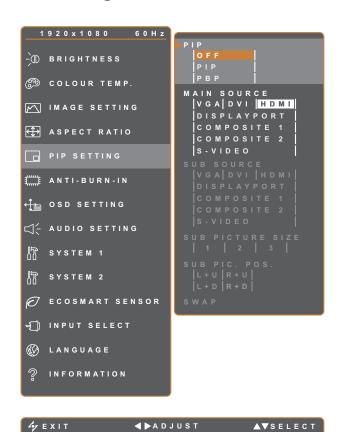
#### 5.4 Aspect Ratio



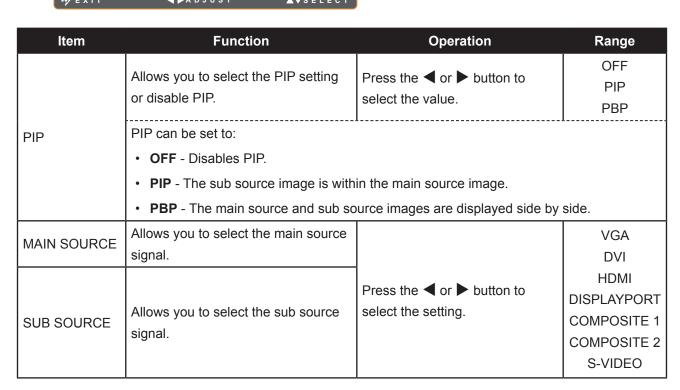
- Press the button to call out the OSD window.
- Select ASPECT RATIO menu, then press the ▶ button.
- Pressthe ▲ or ▼ button to select an option.



#### 5.5 PIP Setting



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



**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:

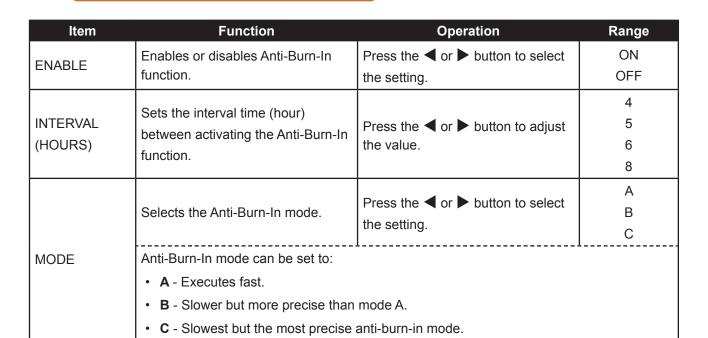
Input Source		Main Source						
1114	Jut Source	VGA	DVI	HDMI	DISPLAYPORT	COMPOSITE 1	COMPOSITE 2	S-VIDEO
	VGA	Х	0	0	0	0	0	0
	DVI	0	Х	0	0	0	0	0
Cub	HDMI	0	0	Х	0	0	0	0
Sub Source	DISPLAYPORT	0	0	0	X	0	0	0
Joanec	COMPOSITE 1	0	0	0	0	X	X	Х
	COMPOSITE 2	0	0	0	0	X	X	Х
	S-VIDEO	0	0	0	0	X	Х	Х

Item	Function	Operation	Range
SUB PICTURE	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.	Press the ◀ or ▶ button to select the setting.	1 2 3
(Sub Picture Size)	The size of the sub source image can  • 1 - Small image size.  • 2 - Medium image size.  • 3 - Large image size.	be set to:	
SUB PIC. POS.	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	Press the ◀ or ▶ button to select the setting.	L+U R+U L+D R+D
(Sub Picture Position)	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.	Press the ▶ button to execute the function.	-

#### 5.6 Anti-Burn-in



- Press the button to call out the OSD window.
- Select ANTI-BURN-IN menu, then press the ▶ button.
- 3. Press the ▲ or ▼ button to select an option.



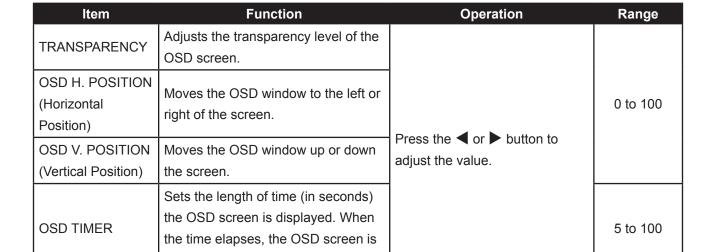
#### 5.7 OSD Setting

**4**∕ EXIT



automatically inactivated.

- 1. Press the D button to call out the OSD window.
- 2. Select **OSD SETTING** menu, then press the button.
- 3. Press the ▲ or ▼ button to select an option.



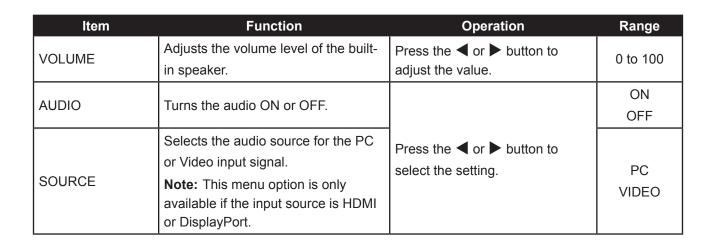
▲▼SELECT

#### 5.8 Audio Setting

♣ EXIT



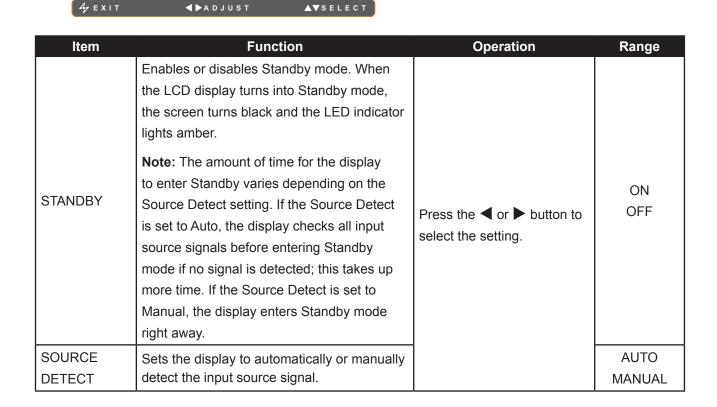
- 1. Press the D button to call out the OSD window.
- 2. Select AUDIO SETTING menu, then press the button.
- 3. Press the ▲ or ▼ button to select an option.



#### **5.9 System 1**



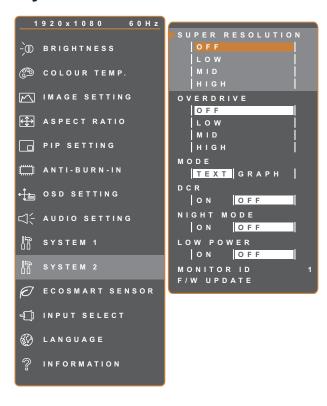
- Press the button to call out the OSD window.
- Select SYSTEM 1 menu, then press the button.
- 3. Press the ▲ or ▼ button to select an option.



Item	Function	Operation	Range
DDC/CI	Activates the DDC/CI protocol to allow users to configure the monitor by a software using two wires on the VGA, HDMI, DisplayPort, or DVI cables.		
BLUE SCREEN	Enables or disables the blue screen feature.  If the setting is set to <b>ON</b> , it displays a blue screen when no signal is available.		
SIGNAL INFO	Enables or disables the signal information to be displayed on the screen.		
	Enables or disables HDMI Consumer Electronics Control control.	Press the ◀ or ▶ button to	ON OFF
Alink	If the setting is set to <b>On</b> , you can control the connected HDMI-CEC compatible device on	select the setting.	
	the same power on or power off status. <b>Note:</b> This menu option is only available if the input source is HDMI.		
	Enables or disables the logo feature.		
LOGO	If the setting is set to <b>ON</b> , the AG Neovo		
	logo is briefly displayed after the display is powered on.		
LED	Sets the display LED indicator on or off.		
RESET	Use to reset all to default settings, except	Press the button to	_
INCOLI	Language, and the input source.	execute the function.	-

#### 5.10 System 2

**4** EXIT



**◀**▶ADJUST

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

Item	Function	Operation	Range	
SUPER	Upscales images at a higher and more		OFF	
RESOLUTION	detailed resolution for better clearness.		LOW	
OVEDDDIVE			MID	
OVERDRIVE	Enhances the display response time.	Press the ◀ or ▶ button to	HIGH	
	Sets the current mode for better image display.	select the setting.	TEXT GRAPHIC	
MODE	<ul> <li>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.</li> <li>For optimal performance, select:</li> <li>TEXT - This mode is suitable for viewing text documents when the resolution is 720 x 400 or 720 x 350.</li> <li>GRAPHIC - Graphics mode is suitable for viewing images when the resolution is 640 x 350 or 640 x 400.</li> </ul>			

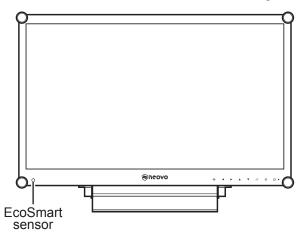
▲▼SELECT

Item	Function	Operation	Range
DCR (Dynamic Contrast Ratio)	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.  Note: When the DCR function is activated, the BACKLIGHT and ECOSMART SENSOR		
NIGHT MODE	function will be disabled.  Enables or disables the night mode feature.  When you are using the display in a dark room, set the setting to <b>ON</b> . This allows user to manually adjust backlight to lower than normal level for better viewing experience in the dark environment.  Note: When the NIGHT MODE is activated, the DCR and ECOSMART SENSOR functions will be disabled.	Press the ◀ or ▶ button to select the setting.	ON OFF
LOW POWER	Configures low power mode settings.  Note: When the Low Power is set to ON, all book as Backlight, DCR, Night Mode, and EcoSmar Power is set to OFF, all previously disabled ite	t Sensor) will be disabled. Whe	en the Low
MONITOR ID	Sets the ID number for controlling the display via the RS232 connection. Each display must have a unique ID number when multiple sets of this display are connected.	Press the ◀ or ▶ button to set the ID.	1~255
F/W UPDATE	Updates system firmware.		

#### 5.11 EcoSmart Sensor

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.

Note: Please make sure the EcoSmart sensor is not covered when enabling this function.







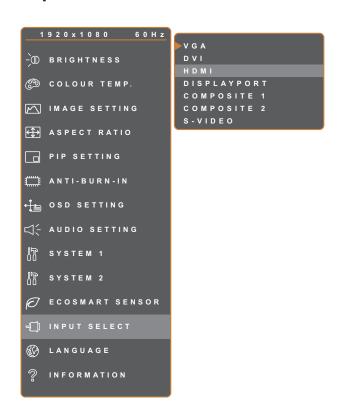
- Press the button to call out the OSD window.
- 2. Select **ECOSMART SENSOR** menu, then press the ▶ button.
- Press the ▲ or ▼ button to select an option.



Item	Function	Operation	Value
ENABLE	Enables or disables the Eco Smart	Press the ◀ or ▶ button to	ON
ENABLE	feature.	select the setting.	OFF

Item	Function	Operation	Value			
	Sets the auto brightness mode.	Press the ◀ or ▶ button to	AUTO			
	Sets the auto brightness mode.	select the setting.	USER			
MODE	The mode can be set to:					
MODE	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.					
	Allows you to set the level of LCD					
	brightness.	Press the ◀ or ▶ button to				
LEVEL	Note: This menu option is only available if the MODE setting is to	adjust the value.	0 to 100			
	USER.					

#### 5.12 Input Select



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



Item	Function	Operation	Value
VGA	Sets VGA as the input source signal.		
DVI	Sets DVI as the input source signal.		
HDMI	Sets HDMI as the input source signal.		
DISPLAYPORT	Sets DisplayPort as the input source signal.	Press the ▶ button to switch to	
COMPOSITE 1	Sets COMPOSITE 1 as the input source signal.	the selected input source.	-
COMPOSITE 2	Sets COMPOSITE 2 as the input source signal.		
S-VIDEO	Sets S-VIDEO as the input source signal.		

## **CHAPTER 6: APPENDIX**

### **6.1 Warning Messages**

Warning Messages	Cause	Solution
INPUT SIGNAL OUT OF RANGE	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.
NO SIGNAL		Check if the signal cable is properly connected.
		Check if any pin inside the cable connector is twisted or broken.
OSD LOCK OUT	The OSD has been locked by the user.	Unlock the OSD. Refer to page 26.
ANTI-BURN-IN ON	The Anti-Burn-In function has been enabled by the user.	Disable the Anti-Burn-In function. Refer to page 41.
ANTI-BURN-IN OFF	The Anti-Burn-In function has been disabled by the user.	Enable the Anti-Burn-In function. Refer to page 41.
WARNING  CHANGING THE FOLLOWING SETTINGS IN GIG MENU MAY INCREASE THE FORCE CONSUMPTION OF YOUR ROUTOR.  - AACRUSING - POLYUME BLODE - YOULUME - TRAIGNY - DOCR  DO YOU WANT TO CONTINUE TO CHANGE?  ACCEPT  CANCEL	This warning message box will only show when the menu feature setting is changed for the first time.	<ul> <li>Press the Enter button to continue the setting changes, or press the CANCEL button to disable the setting changes.</li> <li>Note: The operation may vary from different product models.</li> </ul>

### **6.2 Supported Resolutions**

PC Mode	Reso	lution	Refresh Rate
- FC Wode	Horizontal	Vertical	Kellesii Kale
IBM VGA	720	400	70
IBM VGA	640	480	60
Apple Mac II	640	480	67
VESA	640	480	72
VESA	640	480	75
VESA	800	600	56
VESA	800	600	60
VESA	800	600	72
VESA	800	600	75
Apple Mac II	832	624	75
VESA	1024	768	60
VESA	1024	768	70
VESA	1024	768	75
VESA	1280	1024	60
VESA	1280	1024	75
Apple Mac II	1152	870	75
VESA	1152	864	75
VESA	1280	800	60
VESA	1280	800	75
VESA	1280	960	60
VESA	1440	900	60
VESA	1680	1050	60
VESA	1920	1080	60

Video Mode	Reso	lution	Refresh Rate
Video Mode	Horizontal	Vertical	Refresti Kale
EDTV	720	480	60i
EDTV	720	480	60
EDTV	720	576	50i
EDTV	720	576	50
HDTV	1280	720	50
EDTV	1280	720	60
HDTV	1920	1080	50i
HDTV	1920	1080	50
HDTV	1920	1080	60i

Video Mode	Resolution		Defreeh Dete
	Horizontal	Vertical	Refresh Rate
HDTV	1920	1080	60
HDTV	1920	1080	24
HDTV	1920	1080	25
HDTV	1920	1080	30

### 6.3 Troubleshooting

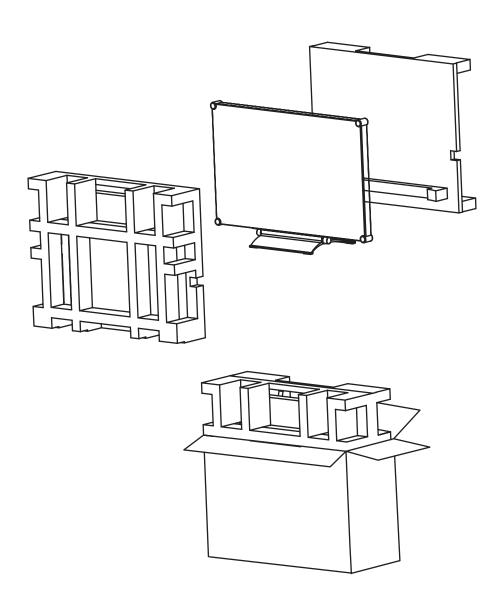
Problem	Possible Cause and Solution	
No picture.	Check if the LCD display is turned ON.	
LED indicator is OFF.	Check if the power cord is properly connected to the LCD display.	
	Check if the power cord is plugged into the power outlet.	
LED indicator is     AMBER.	Check if the computer is turned ON.	
	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 35.	
The displayed texts are blurry.	For VGA input, press the      button on the keypad to auto-adjust the display.	
	Adjust the IMAGE SETTING (see page 35).	
The OSD menu can't be called out.	The OSD is locked. To unlock the OSD, see page 26.	
Red, blue, green, white	There are millions of micro transistors inside the LCD display. It is	
dots appear on screen.	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 22 or 43).	
	Check if the AUDIO SETTING > AUDIO setting is set to OFF (see page 43).	
	For VGA or DVI input, check the audio setting of the computer.	
	For HDMI or DisplayPort input, select the correct audio input source (see page 43).	
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 40).	

Problem	Possible Cause and Solution
Cannot adjust the backlight setting.	<ul> <li>The Eco Smart feature is enabled. Set the ECOSMART SENSOR &gt;         ENABLE setting to OFF to disable the Eco Smart feature (see page 48).</li> </ul>
The displayed picture looks distorted.	Adjust the aspect ratio (see page 38).
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.
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.	<ul> <li>Turn off the LCD display for extended periods of time.</li> <li>Use a screen saver or a black and white image and run it for extended periods of time.</li> </ul>

### 6.4 Transporting the LCD Display

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

- 1 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

		RX-2402
Panel	Panel Type	LED-Backlit TFT LCD (VA Technology)
	Panel Size	23.8"
	Max. Resolution	FHD 1920 x 1080
	Pixel Pitch	0.275 mm
	Brightness	300 cd/m <sup>2</sup>
	Contrast Ratio	20,000,000:1 (DCR)
	Viewing Angle (H/V)	178°/178°
	Display Colour	16.7M
	Response Time	5 ms
	Surface Treatment	Anti-Glare Treatment (Haze 25%), 3H Hard Coating
Frequency (H/V)	H Freq.	24 kHz-83 kHz
	V Freq.	50 Hz-75 Hz
Input	DisplayPort	x 1
Прис	HDMI	1.4 x 1
	DVI	24-Pin DVI-D x 1
	VGA	15-Pin D-Sub x 1
	Composite (CVBS)	BNC x 2
	S-Video	4-Pin mini DIN x 1
Output	Composite (CVBS)	BNC x 2
External Control	RS232 In	2.5 mm Phone Jack
Other Connectivity	USB	
Audio	Audio In	2.0 x1 (Service Port)  Stereo Audio Jack (3.5 mm)
Audio	Audio III	Stereo Audio Jack (S.5 min) Stereo Audio Jack (RCA)
	Audio Out	Stereo Audio Jack (RCA)
	Internal Speakers	2W x 2
Power	Power Supply	External
rowei	Power Requirements	DC 12V, 2.8A
	On Mode	18W (On)
	Standby Mode	< 0.5 W
	Off Mode	< 0.3 W
Class	Thickness	3.0 mm (0.12")
Glass	Reflection Rate	< 1%
	Transmission Rate	> 97%   6
	MOHS Hardness	9H
	Pencil Hardness  IK Rating	IK07
Operating Conditions	<u> </u>	-5°C-45°C (32°F-104°F)
Operating Conditions	Temperature	10%-90% (non-condensing)
Transport/ Ctarage	Humidity	· · · · · · · · · · · · · · · · · · ·
Transport/ Storage Conditions	Temperature	-20°C-60°C (-4°F-140°F)
Mountina	Humidity	5%-95% (non-condensing)
Mounting	VESA FPMPMI	Yes (100 x 100 mm & 75 x 75 mm)
Stand	Tilt	3° to 21°
Security	Kensington Security Slot	Yes
Dimensions	w/o Base (W x H x D)	562.4 x 352.6 x 56.2 mm (22.1" x 13.9" x 2.2")
	w/Base (W x H x D)	562.4 x 392.8 x 196.0 mm (22.1" x 15.4" x 7.7")
	Packaging (W x H x D)	672.0 x 517.0 x 249.0 mm (26.5" x 20.4" x 9.8")
Weight	w/o Base	6.9 kg (15.3 lb)
	w/Base	7.7 kg (17.0 lb)
	Packaging	10.4 kg (23.0 lb)

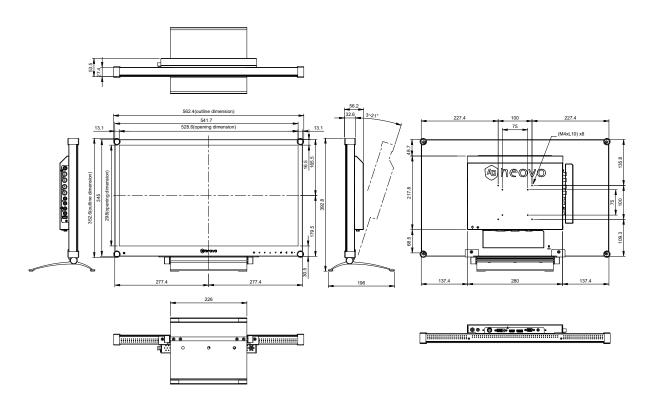
#### Note:

• All specifications are subject to change without prior notice.

## **SPECIFICATIONS**

### 7.2 Display Dimensions

#### 7.2.1 RX-2402 Dimensions



#### **AG Neovo**

Company Address: 5F-1, No. 3-1, Park Street, Nangang District, Taipei, 11503, Taiwan.

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RX-2402 Eprel registration number: 1863020