



USER MANUAL

MODEL: ECHW2400HDWT2

Important safety instructions

01. Please read these instructions carefully before using the product and save for later reference.
02. Follow all warnings and instructions marked on the product.
03. Unplug this product from the wall outlet before cleaning. Clean the product with a damp soft cloth. Do not use liquid or aerosol cleaners as it may cause permanent damage to the screen.
04. Do not use this product near water.
05. Do not place this product on an unstable cart, stand, or table.
The product may fall, causing serious damage to the product.
06. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.
The openings should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
07. This product should be operated from the type of power indicated on the marking label.
If you are not sure of the type of power available, consult your dealer or local power company.
08. This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin.
This plug will only fit into a grounding-type power outlet.
This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet.
Do not defeat the purpose of the grounding-type plug.
09. Do not allow anything to rest on the power cord.
Do not locate this product where persons will walk on the cord.
10. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord does not exceed the extension cord ampere rating. Also make sure that the total of all products plugged into the wall outlet does not exceed 15 amps.
11. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock.
Never spill liquid of any kind on the product.
12. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks and will void the warranty.
Refer all servicing to qualified service personnel.
13. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the product.
 - c. If the product has been exposed to rain or water.
 - d. If the product does not operate normally when the operating instructions are followed.
Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e. If the product has been dropped or the cabinet has been damaged.
 - f. If the product exhibits a distinct change in performance, indicating a need for service.

Record of Revision

Version & Date	Page	Old Description	New Description
2022/10/21	All	First Edition for Customer	

Contents

No.	Item	Page
	Cover	01
	Important safety instructions	02
	Record of Revision	03
	Contents	04
1.	Introduction	05
(1)	Features	05
(2)	Notice	05
(3)	Check list	05
2.	Installing the monitor	06
(1)	Power & Signal connections	06
(2)	Optional cable connections	06
(3)	Dimensions	07
3.	Using VGA LCD monitor	08
(1)	Key definition	08
(2)	Setup for Operation	09
(3)	OSD menu system	10
4.	Cleaning the monitor	14
5.	Disclaimer	14
6.	Trouble shooting	15
7.	Specifications	16

1. Introduction

1.1 Features

- High contrast color TFT-LCD Monitor support resolution up to 1920*1080.
- Power management system conforms to VESA DPMS and EPA Energy Star standards.
- Universal Power adapter.
- Support DDC1 & DDC2B for Plug & Play compatibility.
- Advanced OSD control for picture quality adjustment.
- Detachable stand for wall-mounting adjustment.
- Heavy duty monitor with steel frame.
- Custom design by request.

1.2 Notice

- Do not touch the LCD panel surface with sharp or hard objects.
- Do not use abrasive cleaners, waxes or solvents for cleaning, use only a dry or damp, soft cloth.
- Use only with a high quality, safety-approved, AC/DC power adapter.

1.3 Check List

Before using this monitor, please make sure that all the items listed below are present in your package. Analog color TFT LCD monitor Accessory Box containing:

1	LCD monitor, 24.0"	x1
2	Power cord,L=1.8m	x1
3	VGA Cable, L=1.8m	x1

If any items are missing or damaged, please contact your dealer immediately.

2. Installing the Monitor

The procedures for setting up your TFT LCD monitor are as followings:

2.1 Power & Signal connections

2.1.1 Power

Switch off the power of your monitor and computer.

The Power Switch is located on in the center of the monitor.

2.1.2 Power cable connection

Connect the power cord to the AC outlet, and connect the power to the monitor through the AC/DC adapter.

2.1.3 VGA cable connection

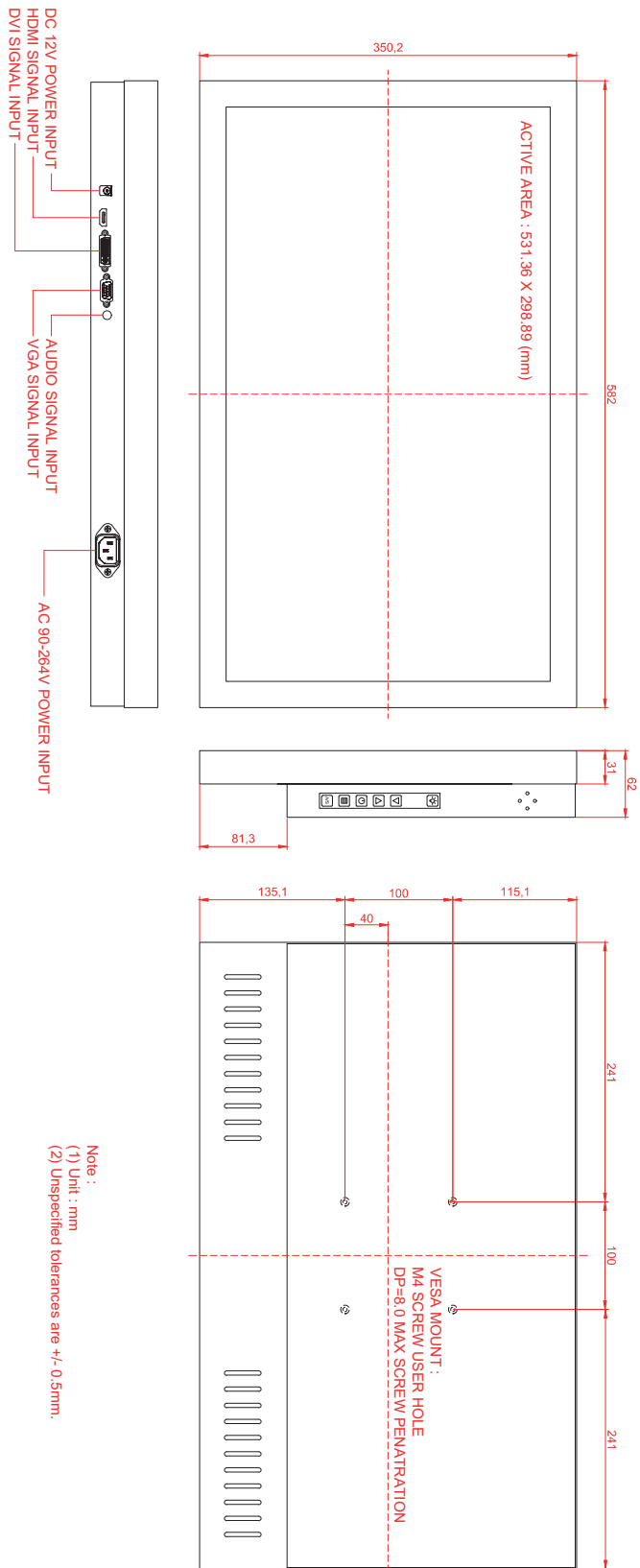
Plug 15-pin VGA signal cable to the VGA connector in the rear of PC system, and plug the other end to the monitor. Secure cable connectors with screws.

2.2 Optional cable connections

The LCD monitor is designed to work with a variety of compatible video sources. Due to possible deviations between these video sources, you may have to make adjustments to the monitor settings from the OSD menu when switching between these sources.

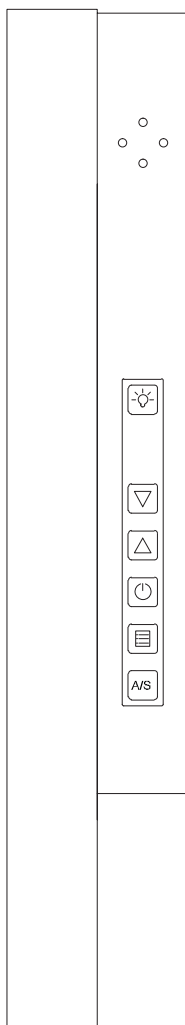
These adjustments are made from the OSD menu.

2.3 Dimensions



3. Using VGA LCD Monitor

3.1 Key Definition



OSD KEY		Function
▽	↓ / ←	Down / value decrease
△	↑ / →	Up / value increase
⏻	Power	Power ON / OFF
☰	Menu	Menu Select
A/S	Auto	Auto Adjust

Product Specification

3.2. Setup for Operation

The OSD (On Screen Display) menu enables user to manipulate the image and settings OSD Main menu consists of source:

OSD MENU		Description
Picture	Backlight	Adjust the Backlight of the screen.
	Brightness	Adjust the Brightness of the screen.
	Contrast	Adjust the Contrast of the screen.
	Sharpness	This function allows the user to optimize the sharpness of the image.
Display	Auto Adjustment	
	H Position	Adjust the horizontal position of the screen's image.
	V Position	Adjust the vertical position of the screen's image.
	Pixel Clock	Adjust frequency to fill display.
	Phase	Adjust the phase control of the image.
Color	Gamma	Set the Gamma to 2.0/2.2/2.4 and off.
	Color Temp	Set the color to 6500k/9300k/User.
	Hue	Adjust the Hue of the screen.
	Saturation	Adjust the Saturation of the screen.
	Auto color	
Advance	Aspect Ratio	Set Aspect Ratio to 4:3/5:4/16:9/Full.
	Overscan	Set Overscan to on/off.
	Ultra Vivid	Set Ultra Vivid to L/M/H/Off.
Input	Auto Select	
	VGA	VGA Input.
	HDMI	HDMI Input.
	DVI	DVI Input.
Audio	Volume	Adjust the Volume.
	Mute	Set the Mute on/off.
	Auto Source	Set the Audio Source Analog/Digital.
Other	Reset	
	Menu Time	Adjust the Menu Time.
	OSD H Position	Adjust the horizontal position of the OSD Menu screen's image.
	OSD V Position	Adjust the vertical position of the OSD Menu screen's image.
	Language	Set the Language English/繁體中文
	Transparency	Adjust the OSD Transparency.
Information		

3.3 OSD Menu

[PICTURE]

Press "+" to increase or "-" to decrease the Backlight, Brightness or Contrast or Sharpness.

- **Backlight**

Adjust the Backlight of the screen.

- **Brightness**

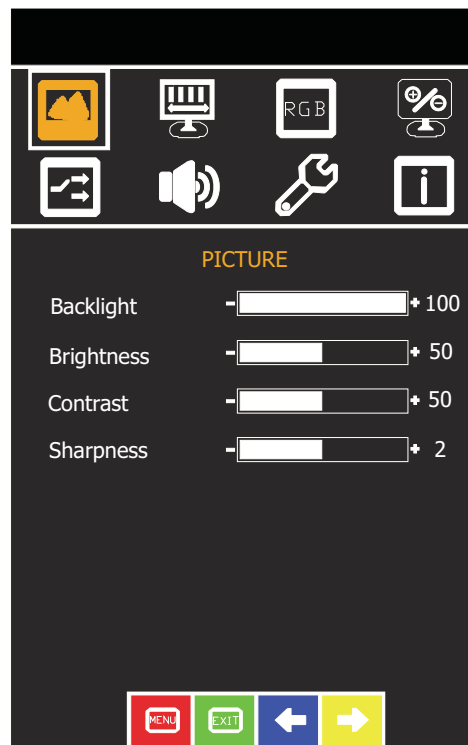
Adjust the brightness of the screen.

- **Contrast**

Adjust the contrast of the screen.

- **Sharpness**

Adjust the Sharpness of the screen.



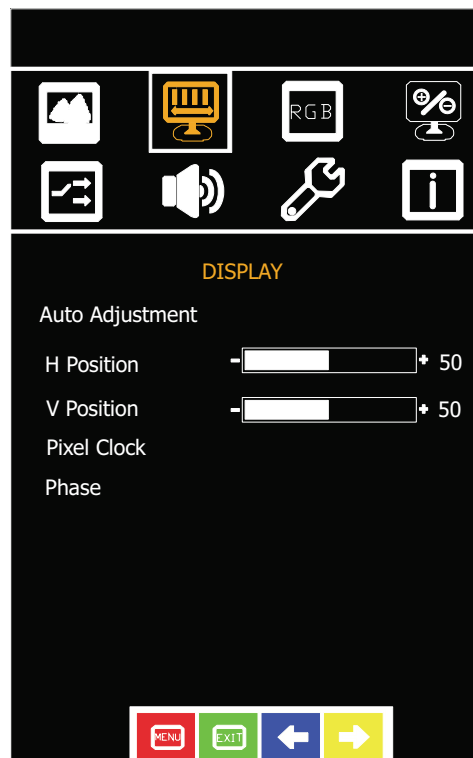
[DISPLAY]

- **H Position.**

Adjust the horizontal position of Screen

- **V Position.**

Adjust the vertical position of the Screen



Product Specification

[COLOR]

- **Gamma**

Set the Gamma to 2.0, 2.2, 2.4 and off.

- **Color Temp**

Set color to 6500k , 9300k , USER .

You can select the screen's color level of the white color field from the default color temperature settings.

Also, you can fine tune the color temperature by USER option if necessary.

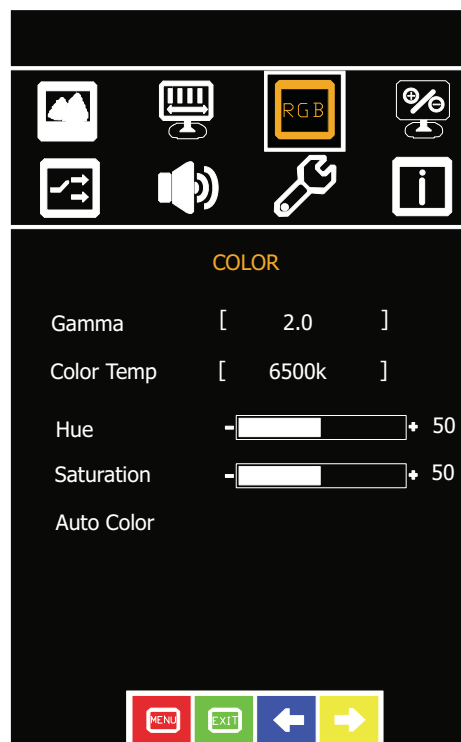
- **Hue**

Adjust the Hue of the screen. .

- **Saturation**

Adjust the Saturation of the screen.

- **Auto Color**



[ADVANCE]

- **Aspect Ratio**

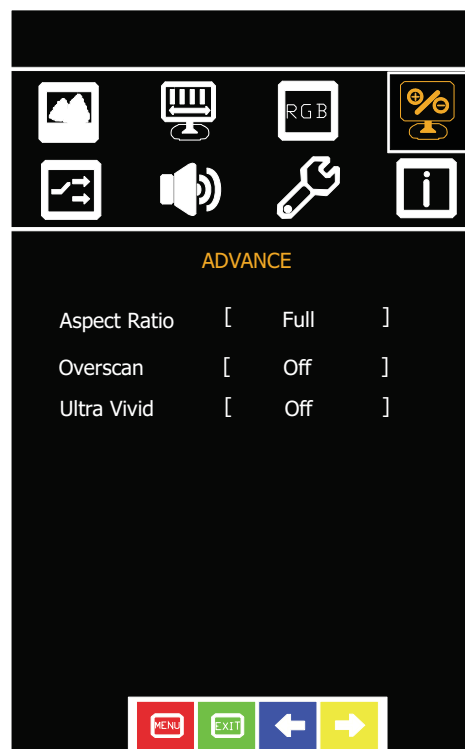
Set Aspect Ratio to 4:3 ,5:4 , 16:9,Full .

- **Overscan**

Set Overscan to on/off .

- **Ultra Vivid**

Set Ultra Vivid to L/M/H/off .

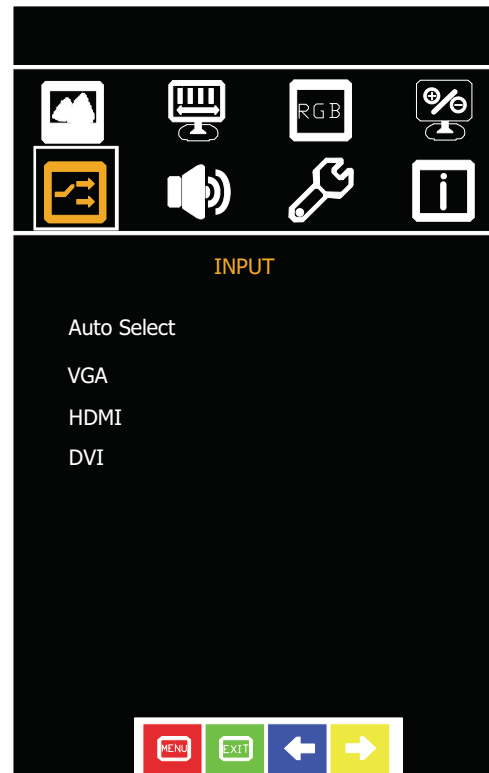


Product Specification

[INPUT]

- **Gamma**

Set the Auto Select/VGA/HDMI/DVI.



[AUDIO]

- **Volume**

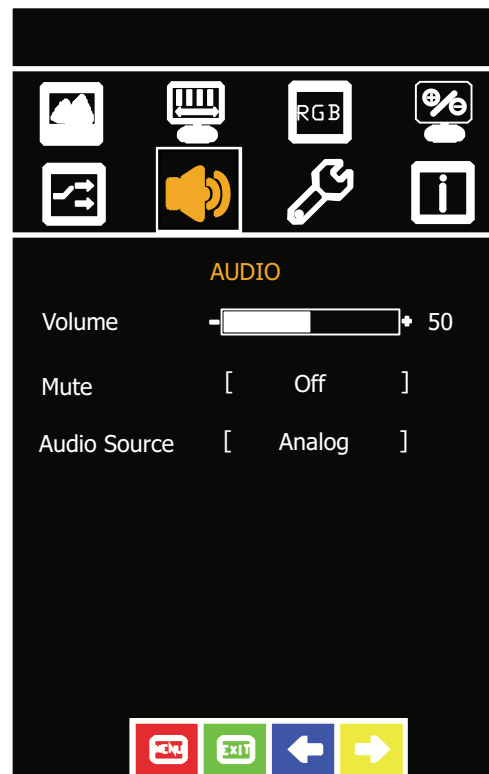
Adjust the Volume.

- **Mute**

Set the Mute on/off.

- **Audio Source**

Set the Audio Source Analog/Digital.



Product Specification

[OTHER]

- **Reset**

- **Menu Time**

Adjust the Menu Time.

- **OSD H. Position.**

Adjust the horizontal position of the OSD Menu screen's image.

- **OSD V. Position.**

Adjust the vertical position of the OSD Menu screen's image.

- **Language**

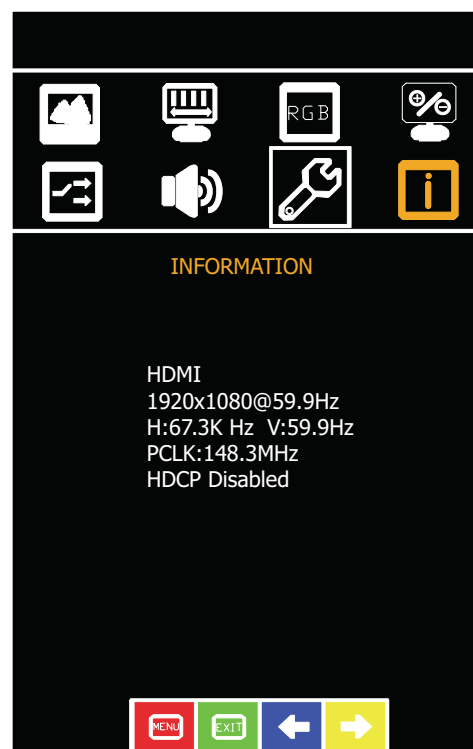
Set the Language English/繁體中文.

- **Transparency**

Adjust the OSD Transparency.



[INFORMATION]



4. Cleaning the monitor

1. Make sure the monitor is turned off.
2. Never spray or pour any liquid directly onto the screen or case.
3. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
4. The display area is highly prone to be scratched. Do not use ketone-type material (ex. Acetone), Ethyl alcohol, toluene, ethyl acid or Methyl chloride to clean the panel. It may permanently damage the panel and void the warranty.
5. If it is still not clean enough, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.
6. Don't use water or oil directly on the monitor.
If droplets are allowed to dry on the monitor, permanent staining or discoloration may occur.

5. Disclaimer

We do not recommend using any ammonia or alcohol-based cleaners on the monitor screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the monitor.

Product Specification

6. Trouble shooting

If your monitor fails to operate correctly, consult the following chart for possible solution before calling for repairs:

Condition	Check Point
The picture does not appear	<ul style="list-style-type: none">● Check if the signal cable is firmly seated in the socket.● Check if the Power is ON at the computer● Check if the brightness control is at the appropriate position, not at the Maximum .
The screen is not synchronized	<ul style="list-style-type: none">● Check if the signal cable is firmly seated in the socket.● Check if the output level matches the input level of your computer.● Make sure the signal timings of the computer system are within the specification of the monitor.● If your computer was working with a CRT monitor, you should check the current signal timing and turn off your computer before you connect the VGA Cable to this monitor.
The position of the screen is not in the center	<ul style="list-style-type: none">● Adjust the H-position, and V-position, or Perform the Auto adjustment.
The screen is too bright (too dark)	<ul style="list-style-type: none">● Check if the brightness or contrast control is at the appropriate position, not at the Maximum (Minimum).
The screen is shaking or waving	<ul style="list-style-type: none">● Press "+" (the Auto - adjustment control) to adjust. Moving all the objects, which emit a magnetic field, such as motor or transformer, away from the monitor. Check if the specific voltage is applied.● Check if the signal timing of the computer system is within the specification of monitor.

Product Specification

7. Specifications

Item	Specification
Panel Type	24.0-inch TFT LCD
Screen Diagonal	24.0-inch
Active Display Area (mm)	531.36 (H) x 298.89 (V)
Pixel Pitch (um)	276.75 (per one triad) ×276.75
Number of Pixels	1920 (x3) x 1080
Contrast Ratio	5000:1
Display Color	16.7M colors (true 8-bit)
Brightness (cd/m ²)	300 cd/m ²
Viewing Angle(Typ.)	89 / 89 / 89 / 89 (R/L/U/D)
Signal Connector	15 PIN D-Sub,DVI-D,HDMI
Power Source	AC 100~240V,Universal(+/-10%)
Power Management	VESA DPMS Compliant
Operating Temperature	-20 ~ +70 °C
Storage Temperature	-30 ~ +80 °C
Plug & Play	VESA DDC 1/2B

*Specifications are subject to change without notice**

The LCD Products listed on this document are not suitable for use in aerospace, submarine, nuclear reactor control systems or life support systems. If customers intend to use these LCD products for this type of mission critical applications they should contact our sales department for further input.

Suitable applications include, but are not limited to, the following: Computer and Office equipment, Communications equipment, Test and Measurement equipment, Machine tools, Industrial robots, Audio and Visual equipment.