



LCD/LED 2412W
USER MANUAL

- + GERMAN
- + ENGLISH
- + FRENCH
- + SPANISH
- + ITALIAN
- + RUSSIAN

WORTMANN AG



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Safety Precautions and Maintenance

Read this manual carefully and retain for future reference

1. Unplug the monitor before cleaning it with a slightly damp cloth.
2. Wiping the screen with a dry cloth is recommendable, and only during the power has been switched off.
3. Do not use alcohol or ammonia-based liquids.
4. This monitor is designed with ventilation holes on the cabinet back, please do not cover them or block it.
5. Also avoid placing the monitor near the electric heater or heater, including in an enclosed room with no ventilations.
6. Please do not insert any matter or spray any liquid on it.
7. Please do not position the monitor on unsafe space, if it falls, it may be damaged and may hurt the user.
8. Unplug the monitor if it is not going to be in use for an extended period of time.
9. Please do not put heavy items on the monitor, or electric cord.
10. Please do not open the monitor back panel because the monitor contained high voltage current.

Contents

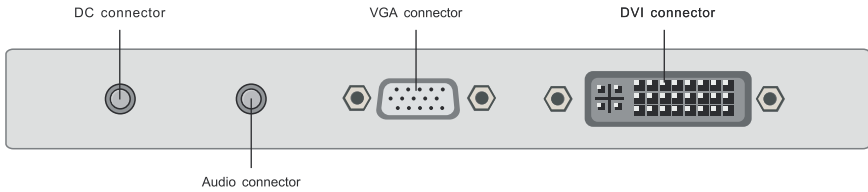
- * A monitor
- * A signal cord
- * A power cable
- * A adapter
- * A warranty card
- * A user manual instruction
- * An audio cable

Features:

- * 16.7M high quality image colors
- * Smart image screen setting-OSD with simple layout and easy selection
- * Smart control interfaces for easy settings
- * Auto function: when no settings are set, it will auto-adjust to optimum settings

Basic setup

- a) Insert the DVI cable or VGA cable (signal cord) to the PC graphic card (signal input). We recommend using the digital interface (DVI).



- b) The monitor has a wide power voltage range, it can be used on AC100~240V ~ 50/60Hz power supply.
 c) Connect the power cable to the Monitor power socket and to the power source in the room.
 d) Turn on the power source supply.
 e) To switch on the monitor, press the power control key.

Screen image setups

The right side of the monitor have Five keys to adjust the monitor settings with the aid of the OnScreen Display.



1	Display main menu / Exit from OSD menu
	Press 【 1 】 key to long-term,OSD LOCKED.
	Then press 【 1 】 key to long-term,OSD UNLOCKED.
▽	Select the desired item when in OSD menu / When not in OSD menu, directly enter Brightness Mode menu
△	Select the desired item when in OSD menu / Auto adjust the image When not in OSD menu
2	Confirm selection OSD menu / When not in OSD menu, adjust mode select for VGA, DVI mode
⏻	Power ON/OFF
	Press 【 ⏻ 】 key to long-term,POWER LOCKED.
	Then press 【 ⏻ 】 key to long-term,POWER UNLOCKED.

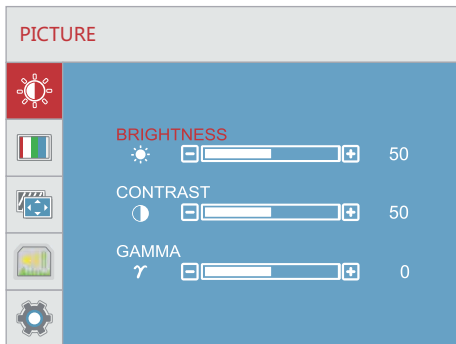
Functions :

Press the **[]** Button, Then the main menu of the **OSD** appears.

PICTURE

Press **[]** button, the main menu will appear as follows :

Press **∇ / Δ** button to select **PICTURE** in the main menu, then press **[]** button to enter.



BRIGHTNESS

Press **∇ / Δ** button to select **BRIGHTNESS**, then press **[]** button confirmation choice and press **∇ / Δ** button to adjust.

CONTRAST

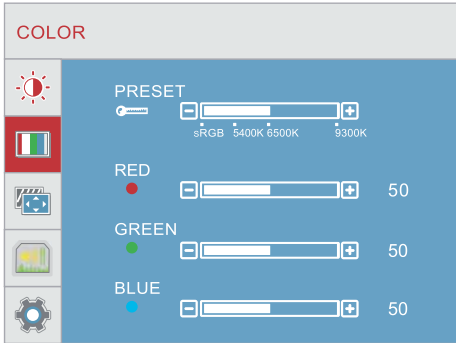
Press **∇ / Δ** button to select **CONTRAST**, then press **[]** button confirmation choice and press **∇ / Δ** button to adjust.

GAMMA

Press **∇ / Δ** button to select **GAMMA**, then press **[]** button confirmation choice and press **∇ / Δ** button to adjust.

COLOR

Press Δ/∇ button to select **COLOR** in the main menu, then press \square button to enter.



PRESET

Press Δ/∇ button to select **PRESET**, then press \square button confirmation choice. And press Δ/∇ button to adjust.

RED

Press Δ/∇ button to select **RED**, then press \square button confirmation choice and press Δ/∇ button to adjust the value of the three primary colors of red.

GREEN

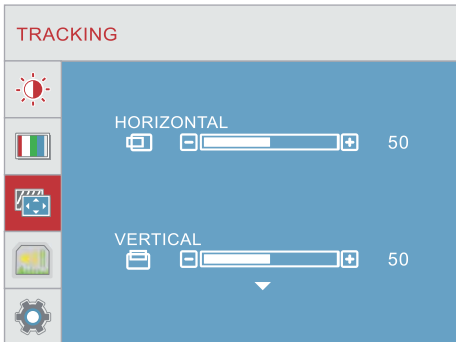
Press Δ/∇ button to select **GREEN**, then press \square button confirmation choice and press Δ/∇ button to adjust the value of the three primary colors of green.

BLUE

Press Δ/∇ button to select **BLUE**, then press \square button confirmation choice and press Δ/∇ button to adjust the value of the three primary colors of blue.

TRACKING

Press Δ/∇ button to select **TRACKING** in the main menu, then press \square button to enter.

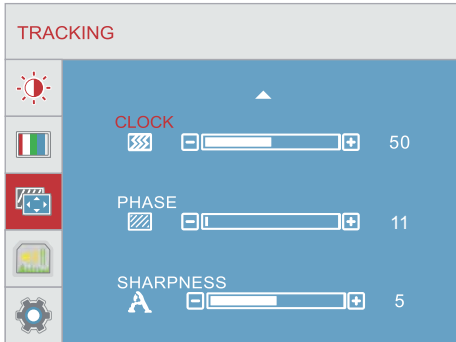


H. Position

Press Δ / ∇ button to select **H. Position**, then press \square button confirmation choice and Press Δ button image toward the right migration. Press ∇ button image toward the left migration.

V. Position

Press Δ / ∇ button to select **V. Position**, then press \square button confirmation choice and Press Δ button image toward the up migration. Press ∇ button image toward the down migration.



CLOCK

Press Δ / ∇ button to select **CLOCK**, then press \square button confirmation choice and press Δ / ∇ button to adjust.

PHASE

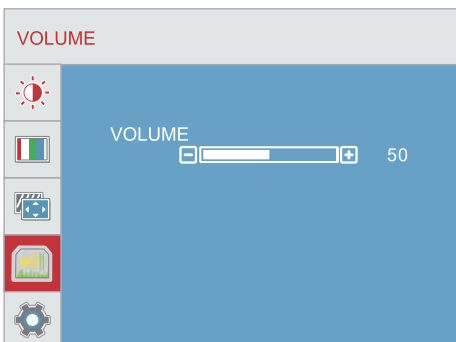
Press Δ / ∇ button to select **PHASE**, then press \square button confirmation choice and press Δ / ∇ button to adjust.

SHARPNESS

Press Δ / ∇ button to select **SHARPNESS**, then press \square button confirmation choice and press Δ / ∇ button to choose 1 to 10 between.

VOLUME

Press Δ / ∇ button to select **VOLUME** in the main menu then press \square button to enter

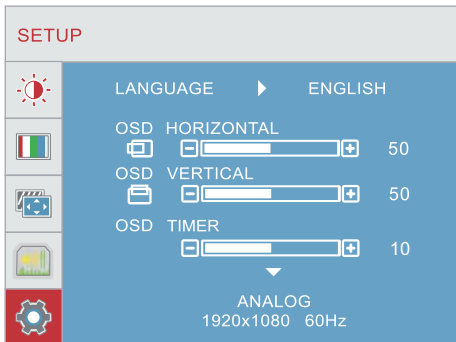


VOLUME

Press Δ/∇ button to select **VOLUME** , then press \square button confirmation choice and press Δ/∇ button to adjust.

SETUP

Press Δ/∇ button to select **SETUP** in the main menu, then press \square button to enter.



LANGUAGE

Press Δ/∇ button to select **LANGUAGE** , then press \square button confirmation choice and press Δ/∇ button to adjust.

OSD HORIZONTAL

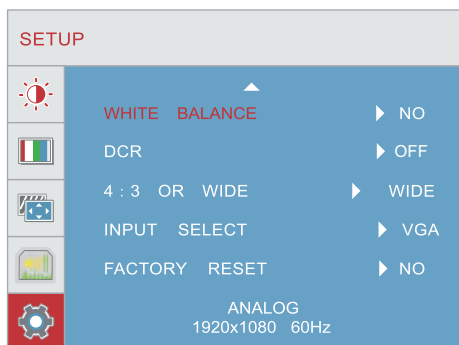
Press Δ/∇ button to select **OSD HORIZONTAL** , then press \square button confirmation choice and Press Δ button OSD toward the right migration. Press ∇ button OSD toward the left migration.

OSD VERTICAL

Press Δ/∇ button to select **OSD VERTICAL** , then press \square button confirmation choice and Press Δ button OSD toward the up migration. Press ∇ button OSD toward the down migration.

OSD TIMER

Press Δ/∇ button to select **OSD TIMER** , then press \square button confirmation choice and Press Δ/∇ button to adjust.



WHITE BALANCE

Press Δ / ∇ button to select **WHITE BALANCE**, then press \square button confirmation choice and press Δ / ∇ button to choose NO or YES.

DCR

Press Δ / ∇ button to select **DCR**, then press \square button confirmation choice and press Δ / ∇ button to choose ON or OFF.

4:3 OR WIDE

Press Δ / ∇ button to select **4:3 OR WIDE**, then press \square button confirmation choice and press Δ / ∇ button to choose 4 : 3 or wide .

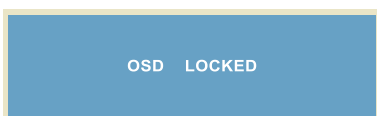
INPUT SELECT

Press Δ / ∇ button to select **INPUT SELECT**, then press \square button confirmation choice and press Δ / ∇ button to choose VGA or DVI.

FACTORY RESET

Press Δ / ∇ button to select **FACTORY RESET**, then press \square button confirmation choice and press Δ / ∇ button to choose YES or NO. When select **YES**, the system will restore to the factory mode.

Other function



Press \square key to long-term, OSD LOCKED.



Then press \square key to long-term, OSD UNLOCKED.

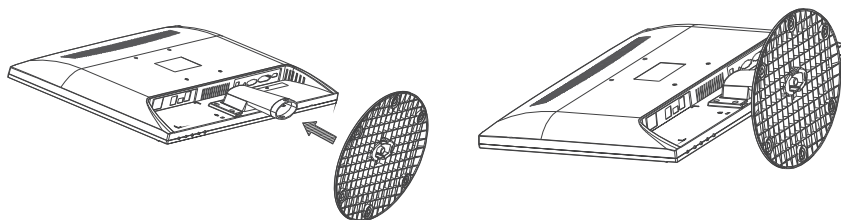
POWER LOCKED

Press 【 ⏻ 】 key to long-term,POWER LOCKED.

POWER UNLOCKED

Then press 【 ⏻ 】 key to long-term,POWER UNLOCKED.

Installing the LED Monitor



1. place the monitor face down on a soft cloth or cushion on a table.
2. Install the stand base to the monitor.

Supporting Timing Modes

Standard	Resolutions	VGA	DVI
VGA	720x400@70Hz	✓	✓
VGA	640x480@60Hz	✓	✓
MAC	640x480@67Hz	✓	✓
VESA	640x480@72Hz	✓	✓
VESA	640x480@75Hz	✓	✓
VESA	800x600@56Hz	✓	✓
VESA	800x600@60Hz	✓	✓
VESA	800x600@72Hz	✓	✓
VESA	800x600@75Hz	✓	✓
VESA	1024x768@60Hz	✓	✓
VESA	1024x768@70Hz	✓	✓
VESA	1024x768@75Hz	✓	✓
VESA	1280x960@60Hz	✓	✓
VESA	1152x864@60Hz	✓	✓
VESA	1280x1024@60Hz	✓	✓
VESA	1280x1024@75Hz	✓	✓
VESA	1440x900@60Hz	✓	✓
VESA	1600x1200@60Hz	✓	✓
VESA	1680x1050@60Hz	✓	✓
VESA	1920x1080@60Hz	✓	✓

Warning: Do not set the graphic card in your computer to exceed these maximum refresh rates. Doing so may result in permanent damage to your monitor.

Troubleshooting

1. NO Image on Screen

- a) Check if the power button has been switched on.
- b) Verify the brightness and contrast of the monitor is within the normal setting.
- c) Check if the power indicator is flashing. If so this indicates that the monitor is not receiving the input signal.
- d) If the signal indicator is notebook or laptop, make sure that the signal has been switched to screen mode.

2. Non-focus Image

- a) Check if the image signal cable is inserted properly (upright position).

3. Flash Screen

- a) The power is insufficient to connect the monitor or too weak.
- b) To avoid magnetic field around the monitor, do not place these devices close to it. Such as speakers, fluorescence lightings, AC transformer, table fan, and etc.
- c) By pressing the AUTO key, the Auto Adjust Image function will automatically apply optimizes settings to the display.

4. Wrong or Unusual Colour

- a) if red, green, blue or any of the colour disappears, check to see if the signal cord is connected properly. If the plug is loosely connected it might cause bad connection.
- b) Try connecting to another PC for comparison.

5. How to Clean the Monitor

- a) Make sure that the monitor power has been switched off.
- b) Do not spray any liquid on the screen or the plastic panel directly.

6. When Cleaning the Screen

- a) Use clean, soft no fur materials to clean the screen.
- b) If it is still dirty, do add a little of non-ammonia liquid and non-alcohol glass cleanser to clean the screen.

7. When Cleaning the Plastic Panel

- a) Use soft dry cloth
- b) To add a little of non-ammonia liquid and non-alcohol of non-abrasion cleanser to clean surface if it is still unclean.

SPECIFICATIONS :

Dimension	24"	
Monitor type	LED	
Brightness	250cd/m ²	
Color	16.7M	
Resolutions	1920x1080@60Hz	
Power requirement	100-240V ~ 50/60Hz	
Power Mains adapter	FSP030-RHAN2 DC12V=2.5A	
Power consumption	<30W	
Input connector	VGA	VGA Analog
	DVI-D	DVI Digital
	Audio Input	3.5mm stereo Jack
Environment	Operation Temp: 0°~ 40°C Humidity: Less than 80% Storage Temp: -20°~ 60°C	

WEEE Statement



Wichtige Recyclinginformation

Das Gerät darf nach dem Ende der Nutzungszeit nicht mit dem Restmüll entsorgt werden. Bitte führen Sie es zur umweltgerechten Entsorgung den kommunalen Altgeräte-Sammelstellen zu.

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