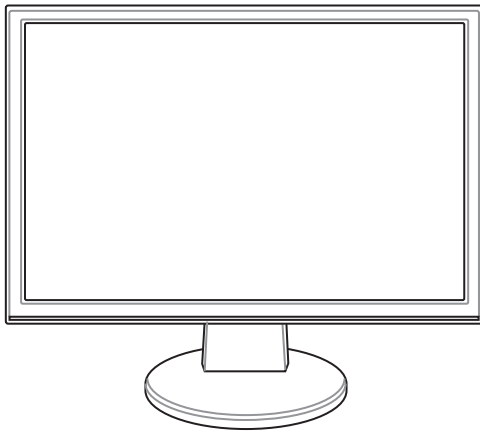


ASUS[®]

VW202xR/VW202B

LCD Monitor

User Guide



E3826

Second Edition V2

April 2008

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Notices

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

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 manufacturer's 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 to 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.



The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

As an Energy Star® Partner, our company has determined that this product meets the Energy Star® guidelines for energy efficiency.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

TCO Development



Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

Ergonomics

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

- Energy-saving mode after a certain time – beneficial both for the user and the environment
- Electrical safety

Emissions

- Electromagnetic fields
- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 001
- Restrictions on
 - chlorinated and brominated flame retardants and polymers
 - heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit www.tcodevelopment.com

Safety information

- Before setting up the monitor, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose the monitor to rain or moisture.
- Never try to open the monitor cabinet. The dangerous high voltages inside the monitor may result in serious physical injury.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- Slots and openings on the back or top of the cabinet are provided for ventilation. Do not block these slots. Never place this product near or over a radiator or heat source unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
- Use the appropriate power plug which complies with your local power standard.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Avoid dust, humidity, and temperature extremes. Do not place the monitor in any area where it may become wet. Place the monitor on a stable surface.
- Unplug the unit during a lightning storm or if it will not be used for a long period of time. This will protect the monitor from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the monitor cabinet.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC.
- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.



This symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Please check local regulations for disposal of electronic products.

Care & Cleaning

- Before you lift or reposition your monitor, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the monitor. When lifting or carrying the monitor, grasp the edges of the monitor. Do not lift the display by the stand or the cord.
- Cleaning. Turn your monitor off and unplug the power cord. Clean the monitor surface with a lint-free, non-abrasive cloth. Stubborn stains may be removed with a cloth dampened with mild cleaner.
- Avoid using a cleaner containing alcohol or acetone. Use a cleaner intended for use with the LCD. Never spray cleaner directly on the screen, as it may drip inside the monitor and cause an electric shock.

The following symptoms are normal with the monitor:

- The screen may flicker during the initial use due to the nature of the fluorescent light. Turn off the Power Switch and turn it on again to make sure that the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- When the same image is displayed for hours, an afterimage of the previous screen may remain after switching the image. The screen will recover slowly or you can turn off the Power Switch for hours.
- When the screen becomes black or flashes, or cannot work anymore, contact your dealer or service center to fix it. Do not repair the screen by yourself!

Conventions used in this guide



WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Information that you **MUST** follow to complete a task.



NOTE: Tips and additional information to aid in completing a task.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. ASUS websites

The ASUS websites worldwide provide updated information on ASUS hardware and software products. Refer to <http://www.asus.com>

2. Optional documentation

Your product package may include optional documentation that may have been added by your dealer. These documents are not part of the standard package.

1.1 Welcome!

Thank you for purchasing the ASUS® VW202xR/VW202B LCD monitor!

The latest widescreen LCD monitor from ASUS provides a crisper, broader, and brighter display, plus a host of features that enhance your viewing experience.

With these features, you can enjoy the convenience and delightful visual experience that the VW202xR/VW202B brings you!

1.2 Package contents

Check your VW202xR/VW202B LCD monitor package for the following items:

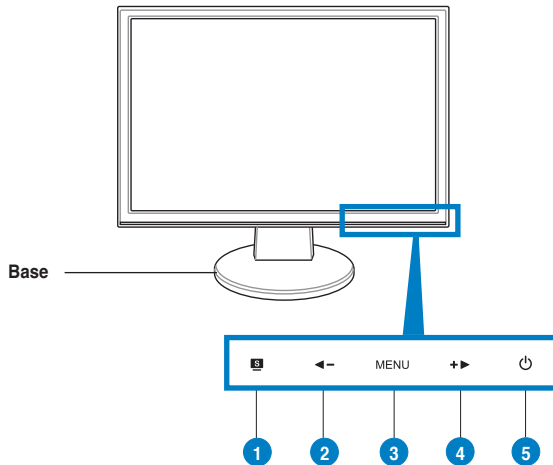
- LCD monitor
- Monitor base
- Quick start guide
- Power cord x 1
- VGA cable x 1
- Support CD (VW202B only)
- USB cable x 1 (VW202B only)
- DVI cable x 1
- Audio cable




If any of the above items is damaged or missing, contact your retailer immediately.

1.3 Monitor introduction

1.3.1 Front view

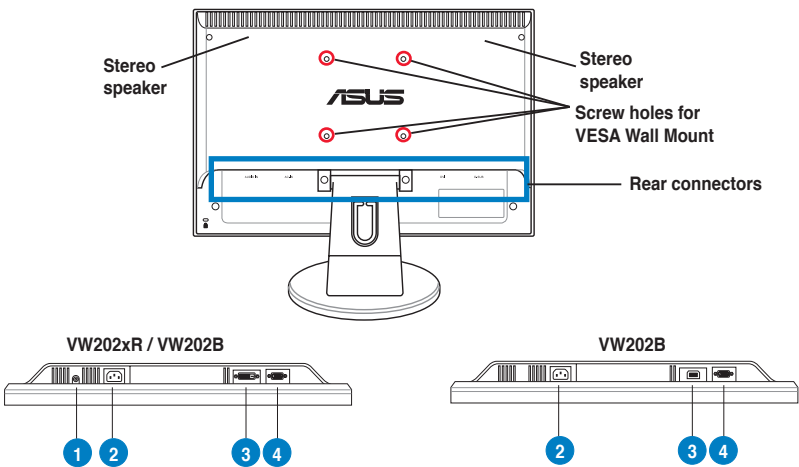


1. **S** Button:
 - Use this hotkey to switch from five video preset modes (Game Mode, Night View Mode, Scenery Mode, Standard Mode, Theater Mode) with SPLENDID™ Video Enhancement Technology.
 - Exit the OSD menu or go back to the previous menu as the OSD menu is active.
 - Automatically adjust the image to its optimized position, clock, and phase by pressing this button for 2-4 seconds (for VGA mode only).
2. **←** Button:
 - Press this button to decrease the value of the function selected or move left/up to the previous function.
 - This is also a hotkey for Volume adjustment.
3. **MENU** Button:
 - Press this button to enter/select the icon (function) highlighted while the OSD is activated.
4. **+▶** Button:
 - Press this button to increase the value of the function selected or move right/down to the next function.
 - This is also a hotkey for Brightness adjustment.

5.  Power button/power indicator
 - Press this button to turn the monitor on/off
 - The color definition of the power indicator is as the below table.

Status	Description
Blue	ON
Amber	Standby mode
OFF	OFF

1.3.2 Back view



Rear connectors

1. **Audio-in port.** This port connects PC audio source by the bundled audio cable.
2. **AC-IN port.** This port connects the power connector from the bundled power cord.
3. **DVI port.** This 24-pin port is for PC (Personal Computer) DVI-D digital signal connection.
USB port (VW202B only). This port is for the built-in USB hub and ASUS EzLink Display connection.
4. **VGA port.** This 15-pin port is for PC VGA connection.



The VESA wall mount kit (100 mm x 100 mm) is purchased separately.

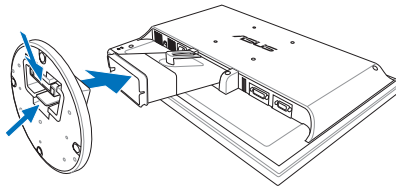
2.1 Assembling the monitor base

To assemble the monitor base:

1. Have the front of the monitor face down on a table.
2. Connect the base with the arm according to the below drawing. A click shows that the base has been connected successfully.

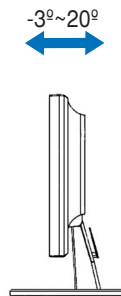


We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.



2.2 Adjusting the monitor

- For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.
- Hold the stand to prevent the monitor from falling when you change its angle.
- You can adjust the monitor's angle from -3° to 20° .



It is normal that the monitor slightly shakes while you adjust the the viewing angle.

2.3 Detaching the arm/base (for VESA wall mount)

The detachable arm/base of the VW202xR/VW202B LCD monitor is specially designed for VESA wall mount.

To detach the arm/base:

1. Have the front of the monitor face down on a table.
2. Remove the rubbers in the four screw holes (Figure 1).
3. Use a screwdriver to remove the two screws on the arm (Figure 1), then slide out the arm/base to detach it from the monitor (Figure 2).

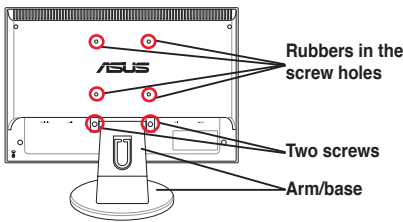


Figure 1

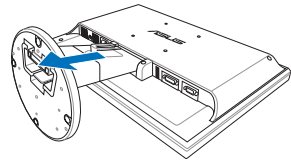


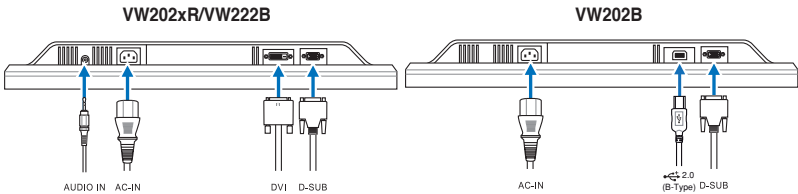
Figure 2



We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.

2.4 Connecting the cables

1. Connect the cables as the following instructions:

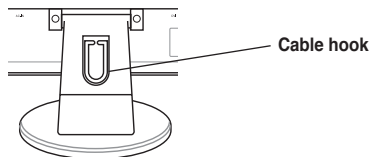


- **To connect the power cord:** connect one end of the power cord securely to the monitor's AC input port, the other end to a power outlet.
- **To connect the USB cable (VW202B only):** connect the B-type end of the USB cable to the monitor's USB port, and the A-type end to the computer's USB 2.0 port.
- **To connect the VGA cable / DVI cable:**
 - a. Plug the VGA / DVI connector to the LCD monitor's VGA / DVI port.
 - b. Connect the other end of the VGA / DVI cable to your computer's VGA / DVI port.
 - c. Tighten the two screws to secure the VGA / DVI connector.





When both the VGA and the DVI cables are connected, you can choose either VGA mode or DVI mode from the Input Select item of the OSD functions.

- **To connect the audio cable:** connect one end of the audio cable to the monitor's Audio-in port, the other end to the computer's audio-out port.
2. Gather all the cables with the cable hook.



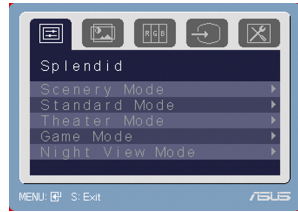
2.5 Turning on the monitor

Gently press the power button . See page 1-2 for the location of the power button. The power indicator  lights up in blue to show that the monitor is ON.

3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure

1. Press the MENU button to activate the OSD menu.
2. Press ◀ and ▶ to navigate through the functions. Highlight and activate the desired function by pressing the MENU button. If the function selected has a sub-menu, press ◀ and ▶ again to navigate through the sub-menu functions. Highlight and activate the desired sub-menu function by pressing the MENU button.
3. Press ◀ and ▶ to change the settings of the selected function.
4. To exit the OSD menu, press the **S** button. Repeat step 2 and step 3 to adjust any other function.



3.1.2 OSD Function Introduction

1. Splendid

This function contains five sub-functions you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.



- **Scenery Mode:** best choice for scenery photo display with SPLENDID™ Video Enhancement.
- **Standard Mode:** best choice for document editing with SPLENDID™ Video Enhancement.
- **Theater Mode:** best choice for movie with SPLENDID™ Video Enhancement.
- **Game Mode:** best choice for game playing with SPLENDID™ Video Enhancement.
- **Night View Mode:** best choice for dark-scene game or movie with SPLENDID™ Video Enhancement.



- In the Standard Mode, the **Saturation** and **Sharpness** functions are not user-configurable.
- In the other modes, the **sRGB** function is not user-configurable.

2. Image

You can adjust brightness, contrast, sharpness, saturation, position (VGA only), ASCR, and focus (VGA only) from this main function.



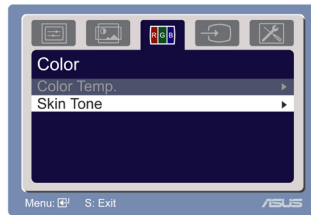
- **Brightness:** the adjusting range is from 0 to 100. + ► is a hotkey to activate this function.
- **Contrast:** the adjusting range is from 0 to 100.
- **ASCR:** turns on/off the ASCR(ASUS Smart Contrast Ratio) function.
- **Sharpness:** the adjusting range is from 0 to 100.
- **Saturation:** the adjusting range is from 0 to 100.
- **Position:** adjusts the horizontal position (H-Position) and the vertical position (V-Position) of the image. The adjusting range is from 0 to 100.
- **Focus:** reduces Horizontal-line noise and Vertical-line noise of the image by adjusting (Phase) and (Clock) separately. The adjusting range is from 0 to 100.



- Phase adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the screen shows horizontal disturbances.
- Clock (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the image is not proportional.

3. Color

Select the image color you like from this function.



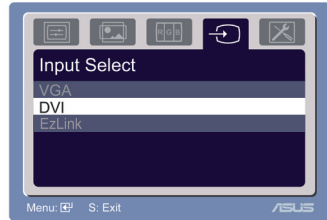
- **Color Temp.:** contains five color modes including Cool, Normal, Warm, sRGB, and User mode.
- **Skin Tone:** contains three color modes including Reddish, Natural, and Yellowish.



In the User mode, colors of R (Red), G (Green), and B (Blue) are user-configurable; the adjusting range is from 0-100.

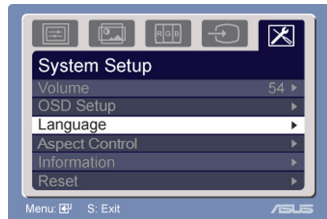
4. Input Select

In this function, you can select either VGA, DVI, or EzLink (VW202B only) input source.



5. System Setup

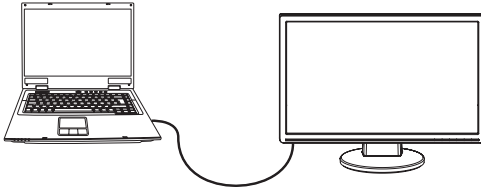
Allow you to adjust the system.



- **Volume:** the adjusting range is from 0 to 100. ◀ – is a hotkey to activate this function.
- **OSD Setup:**
 - * Adjusts the horizontal position (H-Position)/ the vertical position (V-Position) of the OSD from 0 to 100.
 - * Adjusts the OSD timeout from 10 to 120.
 - * Enables or disables the DDC/CI function.
- **Language:** there are ten languages for your selection, including English, German, Italian, French, Dutch, Spanish, Russian, Traditional Chinese, Simplified Chinese, and Japanese.
- **Aspect Control:** adjusts the aspect ratio to “Full” or “4:3”.
- **Information:** shows the monitor information.
- **Reset:** “Yes” allows you to restore the default setting.

3.2 ASUS EzLink Display (VW202B only)

ASUS EzLink Display allows you to transfer digital video signal from your PC to your LCD via a standard USB 2.0 cable. Without the necessity of purchasing additional graphics cards, EzLink Display provides the flexibility for multi-screen applications.



3.2.1 System requirements

Before you install the ASUS EzLink Display software, check if your system meets the following requirements:

Hardware:

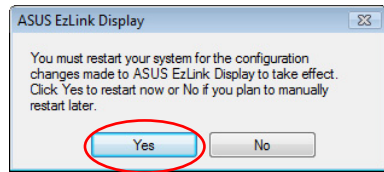
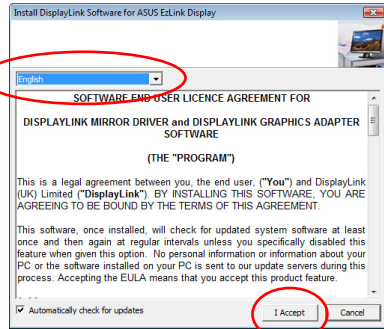
- PC with 1.2 GHz or higher
- 512MB of RAM or higher
- USB 2.0 port
- 30MB of available disk space
- Super VGA (800 x 600) video adaptor or higher resolution
- USB cable A-type to B-type

Supporting operating system:

- Windows 2000 SP4
- Windows XP SP2/SP3
- Windows Vista

3.2.2 Installing ASUS EzLink Display:

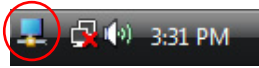
1. Close all other applications.
2. Insert the support CD into the optical drive and select the EzLink Driver.
3. Select the language of the software end user licence agreement and click **I Accept**.
4. The software installation starts. When finished, click **Yes** to restart the computer.



- Refer to www.asus.com for details about ASUS EzLink Display.
- ASUS EzLink Display supports 32-bit Windows® OS environment only. No image will be displayed under computer POST, motherboard BIOS, or DOS environment.
- ASUS EzLink Display supports 16-bit and 32-bit desktop color depth only.
- We recommend that you use the following media players for the optimum video playback quality:
 1. Windows Media Player 11 (www.microsoft.com/windows/windowsmedia/default.msp)
 2. WinDVD 8 (www.intervideo.com)
 3. RealPlayer 11 (www.real.com)
- Your system might encounter low performance or stop responding when running 3D applications or screensaver with ASUS EzLink Display. We recommend that you run 3D applications on a monitor connected to a discrete graphics card instead.

3.2.3 Using ASUS EzLink Display:

Right-click the EzLink system tray icon to show the EzLink software menu.

The image shows the 'ASUS EzLink Display' context menu. It lists several options with callout lines pointing to their descriptions:

- Updates**: Check and configure software update options
- Screen Resolution**: Fast-switch supported screen resolutions (Recommended: 1680x1050)
- Color Quality**: Sets the color depth between 16 bit and 32 bit (Recommended: 32 bit)
- Screen Rotation**: Sets the direction of screen rotation
- Extend To**: Sets the location of the extended desktop
- Extend**: Enables desktop extension
- Mirror**: Mirrors the content of the primary desktop to the extended desktop
- Off**: Turn off the mirror/extended display
- Advanced...**: Launches the Windows® Display Settings tool

The image shows the 'Display Settings' window in Windows. The 'Monitor' tab is active, showing three monitor icons labeled 1, 3, and 2. Monitor 3 is selected. Below the icons, the selected monitor is identified as '3. ASUS EzLink Display (USB_XXXX-XXXXXXXXXXXX)'. The settings for this monitor are:

- This is my main monitor
- Extend the desktop onto this monitor
- Resolution: 1680 by 1050 pixels (set to High)
- Colors: Highest (32 bit)

Buttons for 'OK', 'Cancel', 'Apply', and 'Advanced Settings...' are visible at the bottom.

3.3 Specifications summary (VW202TR)

Panel Type	TFT LCD
Panel size	20" (16:10) wide screen
Max. Resolution	WSXGA+ 1680 x 1050
Pixel pitch	0.258mm
Brightness (Typ.)	250cd/m ²
Brightness (Max.)	300cd/m ²
Contrast Ratio (Typ.)	800:1
Contrast Ratio (Max.)	3000:1 (with ASCR ON)
Viewing angle(H/V) CR>10	160°/160°
Display colors	16.7M
Response time	5ms
SPLENDID™ Video Enhancement	Yes
SPLENDID™ selection	5 video preset modes (by hotkey)
Auto adjustment	Yes (by hotkey)
Color temperature selection	5 color temperatures
Skin-Tone selection	3 skin-tones
Digital input	DVI-D with HDCP
Analog input	D-Sub
Audio-in port	3.5 mm Mini-jack
Colors	Black
Speaker (Built-in)	1W x 2 Stereo, RMS
Power LED	Blue (On)/ Amber (Standby)
VESA wall mount	100 x 100mm
Tilt	+20°~-3°
Kensington lock	Yes
Voltage rating	AC: 100~240V
Power consumption	Power On : < 49W, Standby: < 2W, Power Off: <1W
Dimension (W x H x D)	473 mm x 392 mm x 210 mm (machine) 570 mm x 455 mm x 150 mm (package)
Weight (Esti.)	4.4 kg (Net) ; 6.5 kg (Gross)
Temperature (Operating)	0°C~40°C
Temperature (Non-operating)	-20°C~+60°C
Humidity (Operating)	10%~90%
Humidity (Non-operating)	5%~90%
Multi-languages	10 languages (English, German, Italian, French, Dutch, Spanish, Russian, Traditional Chinese, Simplified Chinese, Japanese)
Accessories	VGA cable, DVI cable, audio cable, power cord, quick start guide, warranty card
Regulation approvals	Energy Star®, CB, CE, Gost-R, CCC, CSA, FCC, C-Tick, BSMI, VCCI, TCO03, RoHS, WEEE, PSB

*Specifications are subject to change without notice.

Specifications summary (VW202SR)

Panel Type	TFT LCD
Panel size	20" (16:10) wide screen
Max. Resolution	WSXGA+ 1680 x 1050
Pixel pitch	0.258mm
Brightness (Typ.)	250cd/m ²
Brightness (Max.)	300cd/m ²
Contrast Ratio (Typ.)	800:1
Contrast Ratio (Max.)	3000:1 (with ASCR ON)
Viewing angle(H/V) CR>10	160°/160°
Display colors	16.7M
Response time	5ms
SPLENDID™ Video Enhancement	Yes
SPLENDID™ selection	5 video preset modes (by hotkey)
Auto adjustment	Yes (by hotkey)
Color temperature selection	5 color temperatures
Skin-Tone selection	3 skin-tones
Analog input	D-Sub
Audio-in port	3.5 mm Mini-jack
Colors	Black
Speaker (Built-in)	1W x 2 Stereo, RMS
Power LED	Blue (On)/ Amber (Standby)
VESA wall mount	100 x 100mm
Tilt	+20°~-3°
Kensington lock	Yes
Voltage rating	AC: 100~240V
Power consumption	Power On : < 49W, Standby: < 2W, Power Off: <1W
Dimension (W x H x D)	473 mm x 392 mm x 210 mm (machine) 570 mm x 455 mm x 150 mm (package)
Weight (Esti.)	4.4 kg (Net) ; 6.5 kg (Gross)
Temperature (Operating)	0°C~40°C
Temperature (Non-operating)	-20°C~+60°C
Humidity (Operating)	10%~90%
Humidity (Non-operating)	5%~90%
Multi-languages	10 languages (English, German, Italian, French, Dutch, Spanish, Russian, Traditional Chinese, Simplified Chinese, Japanese)
Accessories	VGA cable, audio cable, power cord, quick start guide, warranty card
Regulation approvals	Energy Star®, CB, CE, Gost-R, CCC, CSA, FCC, C-Tick, BSMI, VCCI, TCO03, RoHS, WEEE, PSB

*Specifications are subject to change without notice.

Specifications summary (VW202DR)

Panel Type	TFT LCD
Panel size	20" (16:10) wide screen
Max. Resolution	WSXGA+ 1680 x 1050
Pixel pitch	0.258mm
Brightness (Typ.)	250cd/m ²
Brightness (Max.)	300cd/m ²
Contrast Ratio (Typ.)	800:1
Contrast Ratio (Max.)	3000:1 (with ASCR ON)
Viewing angle(H/V) CR>10	160°/160°
Display colors	16.7M
Response time	5ms
SPLENDID™ Video Enhancement	Yes
SPLENDID™ selection	5 video preset modes (by hotkey)
Auto adjustment	Yes (by hotkey)
Color temperature selection	5 color temperatures
Skin-Tone selection	3 skin-tones
Analog input	D-Sub
Colors	Black
Power LED	Blue (On)/ Amber (Standby)
VESA wall mount	100 x 100mm
Tilt	+20°~-3°
Kensington lock	Yes
Voltage rating	AC: 100~240V
Power consumption	Power On : < 49W, Standby: < 2W, Power Off: <1W
Dimension (W x H x D)	473 mm x 392 mm x 210 mm (machine) 570 mm x 455 mm x 150 mm (package)
Weight (Esti.)	4.4 kg (Net) ; 6.5 kg (Gross)
Temperature (Operating)	0°C~40°C
Temperature (Non-operating)	-20°C~+60°C
Humidity (Operating)	10%~90%
Humidity (Non-operating)	5%~90%
Multi-languages	10 languages (English, German, Italian, French, Dutch, Spanish, Russian, Traditional Chinese, Simplified Chinese, Japanese)
Accessories	VGA cable, power cord, quick start guide, warranty card
Regulation approvals	Energy Star®, CB, CE, Gost-R, CCC, CSA, FCC, C-Tick, BSMI, VCCI, TCO03, RoHS, WEEE, PSB




*Specifications are subject to change without notice.

Specifications summary (VW202B)

Panel Type	TFT LCD
Panel size	20" (16:10) wide screen
Max. Resolution	WSXGA+ 1680 x 1050
Pixel pitch	0.258mm
Brightness (Typ.)	250cd/m ²
Brightness (Max.)	300cd/m ²
Contrast Ratio (Typ.)	800:1
Contrast Ratio (Max.)	3000:1 (with ASCR ON)
Viewing angle(H/V) CR>10	160°/160°
Display colors	16.7M
Response time	5ms
SPLENDID™ Video Enhancement	Yes
SPLENDID™ selection	5 video preset modes (by hotkey)
Auto adjustment	Yes (by hotkey)
Color temperature selection	5 color temperatures
Skin-Tone selection	3 skin-tones
PC digital input	USB 2.0
Colors	Black
Power LED	Blue (On)/ Amber (Standby)
VESA wall mount	100 x 100mm
Tilt	+20°~-3°
Kensington lock	Yes
Voltage rating	AC: 100~240V
Power consumption	Power On : < 49W, Standby: < 2W, Power Off: <1W
Dimension (W x H x D)	473 mm x 392 mm x 210 mm (machine) 570 mm x 455 mm x 150 mm (package)
Weight (Esti.)	4.4 kg (Net) ; 6.5 kg (Gross)
Temperature (Operating)	0°C~40°C
Temperature (Non-operating)	-20°C~+60°C
Humidity (Operating)	10%~90%
Humidity (Non-operating)	5%~90%
Multi-languages	10 languages (English, German, Italian, French, Dutch, Spanish, Russian, Traditional Chinese, Simplified Chinese, Japanese)
Accessories	VGA cable, power cord, quick start guide, warranty card, USB cable (B-type)
Regulation approvals	Energy Star®, CB, CE, Gost-R, CCC, CSA, FCC, C-Tick, BSMI, VCCI, TCO03, RoHS, WEEE, PSB

*Specifications are subject to change without notice.

3.4 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	<ul style="list-style-type: none"> • Press the  button to check if the monitor is in the ON mode. • Check if the power cord is properly connected to the monitor and the power outlet.
The power LED lights amber and there is no screen image	<ul style="list-style-type: none"> • Check if the monitor and the computer are in the ON mode. • Make sure the signal cable is properly connected the monitor and the computer. • Inspect the signal cable and make sure none of the pins are bent. • Connect the computer with another available monitor to check if the computer is properly working.
Screen image is too light or dark	<ul style="list-style-type: none"> • Adjust the Contrast and Brightness settings via OSD.
Screen image is not centered or sized properly	<ul style="list-style-type: none"> • Press the  button for two seconds to automatically adjust the image. • Adjust the H-Position or V-Position settings via OSD.
Screen image bounces or a wave pattern is present in the image	<ul style="list-style-type: none"> • Make sure the signal cable is properly connected to the monitor and the computer. • Move electrical devices that may cause electrical interference.
Screen image has color defects (white does not look white)	<ul style="list-style-type: none"> • Inspect the signal cable and make sure that none of the pins are bent. • Perform Reset via OSD. • Adjust the R/G/B color settings or select the Color Temperature via OSD.
Screen image is blurry or fuzzy	<ul style="list-style-type: none"> • Press the  button for two seconds to automatically adjust the image (for VGA mode only). • Adjust the Phase and Clock settings via OSD.
No sound or sound is low	<ul style="list-style-type: none"> • Ensure that the audio cable is properly connected to the monitor and the computer • Adjust the volume settings of both your monitor and computer. • Ensure that the computer sound card driver is properly installed and activated.

3.5 Supported operating modes

Standard	Resolution Frequency	Horizontal Frequency	Vertical Frequency	Pixel
DOS	720 x 400	31.47KHz	70Hz	28.32MHz
VGA	640 x 480	31.47KHz	60Hz	25.18MHz
	640 x 480	37.90KHz	72Hz	31.50MHz
	640 x 480	37.50KHz	75Hz	31.50MHz
SVGA	800 x 600	35.16KHz	56Hz	36.00MHz
	800 x 600	37.90KHz	60Hz	40.00MHz
	800 x 600	48.10KHz	72Hz	50.00MHz
	800 x 600	46.90KHz	75Hz	49.50MHz
XGA	1024 x 768	48.40KHz	60Hz	65.00MHz
	1024 x 768	56.50KHz	70Hz	75.00MHz
	1024 x 768	60.02KHz	75Hz	78.75MHz
SXGA	1280 x 960	60.00KHz	60Hz	108.00MHz
	1280 x 1024	64.00KHz	60Hz	108.00MHz
	1280 x 1024	80.00KHz	75Hz	135.00MHz
VESA	1152 x 864	67.50KHz	75Hz	108.00MHz
	1440 x 900	55.94KHz	60Hz	106.5MHz
UXGA	1600 x 1200	75.00KHz	60Hz	162.00MHz
VESA (Primary)	1680 x 1050	65.29KHz	60Hz	146.25MHz

* Modes not listed in the table may not be supported. For optimal resolution, we recommend that you choose a mode listed in the table above.