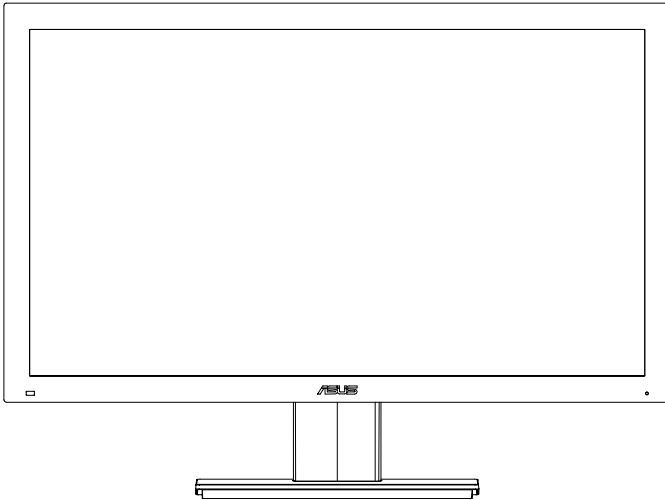


**ASUS®**

# **SD222-YA Series Display**

## **User Guide**



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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.

## 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.

# Safety information

## Use only the AC/DC adapter model: EXA0901XA

- Before setting up the display, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose the display to rain or moisture.
- Never try to open the display cabinet. The dangerous high voltages inside the display 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 display 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 display in any area where it may become wet. Place the display 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 display from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the display cabinet.
- To ensure satisfactory operation, use the display only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- If you encounter technical problems with the display, contact a qualified service technician or your retailer.

## Care and cleaning

- Before you lift or reposition your display, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the display. When lifting or carrying the display, grasp the edges of the display. Do not lift the display by the stand or the cord.
- Cleaning. Turn your display off and unplug the power cord. Clean the display 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 screen. Never spray cleaner directly on the screen, as it may drip inside the display and cause an electric shock.

### The following symptoms are normal with the display:

- 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 try to repair the display 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® display.

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

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

## 1.2 Package contents

Check your package for the following items:

- ✓ Display set
- ✓ Display base and screw
- ✓ Quick start guide
- ✓ Warranty card
- ✓ Power cord
- ✓ Remote controller and battery



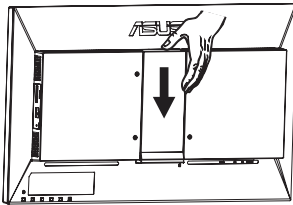
- 
- If any of the above items is damaged or missing, contact your retailer immediately..
-



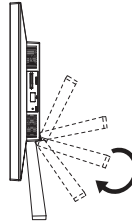
## 1.3 Assembling the base of the display

1. Remove the rear cover by pushing it downward.
2. Flip over the arm hidden in the groove.
3. Place the rear cover on the top of the groove and push it up with a "click" sound.
4. Attach the base to the arm and fasten the screw tightly.
5. Adjust the display to the angle that is the most comfortable to you.

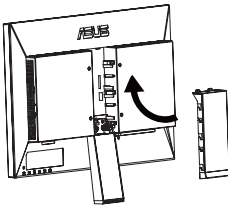
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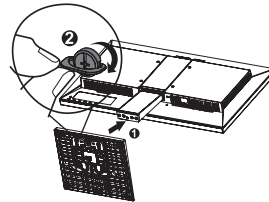
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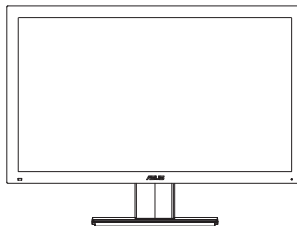
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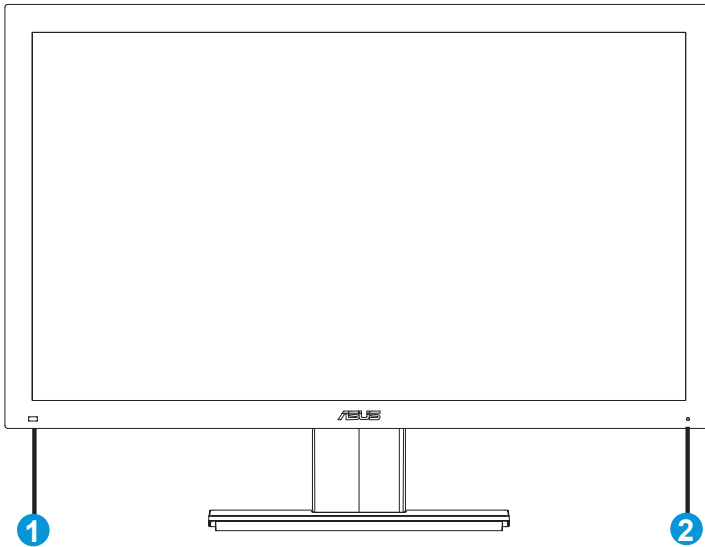
5



- We recommend that you cover the table surface with soft cloth to prevent from damaging the display.

# 1.4 Display introduction

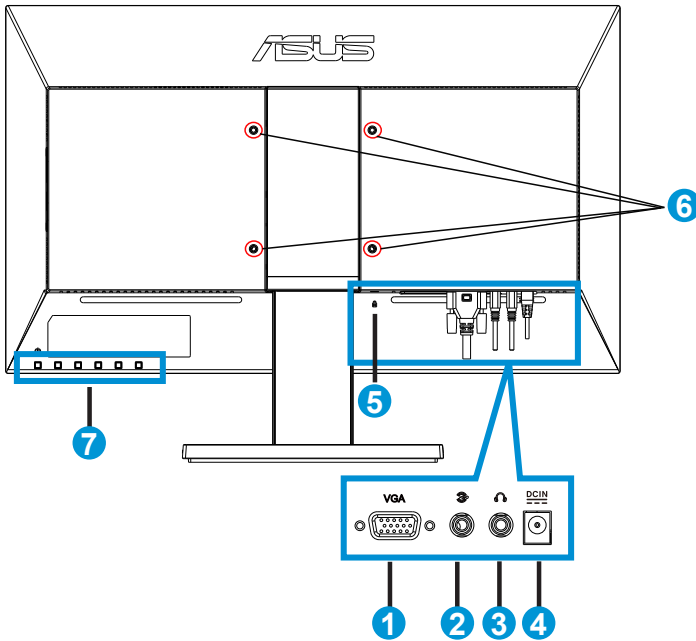
## 1.4.1 Front of the display



1. Remote control sensor:
  - The display receives the command from the remote controller here.
2. Power Indicator:
  - The color of power indicator is as below.

Status	Description
White	Operating
Amber	Standby
Dark	Power off

## 1.4.2 Rear of the display



1. VGA connector
2. Audio-in jack
3. Earphone-out jack
4. Power-in jack
5. Kensington lock
6. Screw holes of mounting interface
7. Control keypad

Item	Key	Description
	Power	To turn on and off the display
	Input select Return	To switch between media player and VGA input To return to the previous selection in the OSD
	Brightness up Next	To adjust the brightness To rise the numerical value of the selected function
	Volume OK	To adjust the volume To select the highlighted function in the OSD
	Auto Back	To adjust screen automatically in VGA input To lower the numerical value of the selected function
	Menu	To enter or to exit the OSD menu To turn on and off the key lock function by pressing 5 seconds

## 2.1 Detaching the arm/stand (for wall mounting)

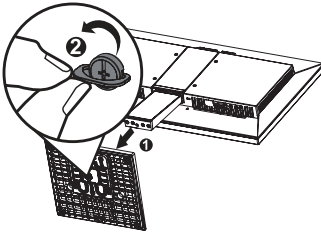
The detachable stand of the display is specially designed for wall mounting.

1. Disconnect the power cord and the signal cables. Carefully place the display face-side down on a clean surface, loosen the screw, and detach the base from the arm.
2. Push down the rear cover to remove it from the groove.
3. Fold the arm back to the groove.
4. Place the rear cover back to the groove and push it upward.

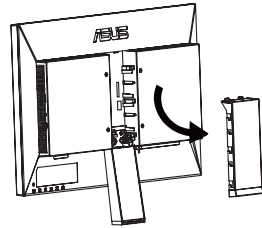


- We recommend that you cover the table surface with soft cloth to prevent from damaging the display.
- Hold the stand while removing the screws.

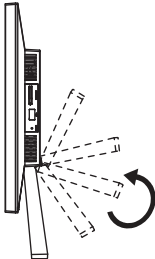
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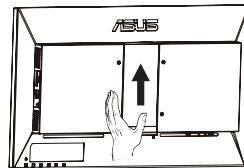
2



3



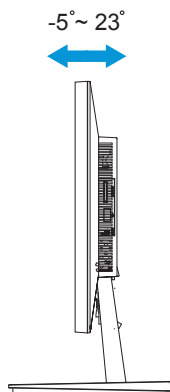
4



- The (100 x 100 mm) wall mount kit is not included in the product purchased.
- Use only the UL listed wall mount bracket with minimum weight/load 14kg (Screw size: M4 x 10 mm).

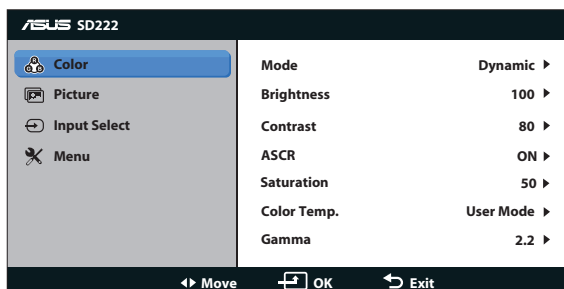
## 2.2 Adjusting the display

- For optimal viewing, we recommend that you look at the full face of the display, and then adjust the display to the angle that is the most comfortable to you.
- Hold the stand to prevent the display from falling while changing its angle.
- You may adjust the display's angle from  $-5^{\circ}$  to  $23^{\circ}$ .



## 3.1 OSD (On-Screen Display) menu

### 3.1.1 How to reconfigure

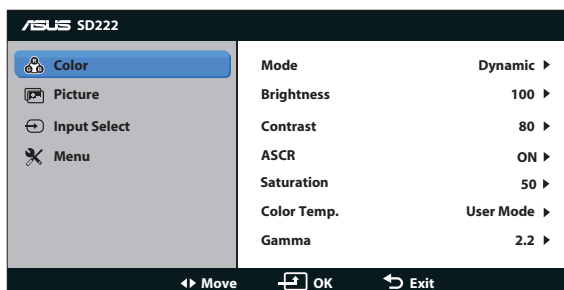


1. Press the MENU button to activate the OSD menu. You may also use the remote controller to activate the OSD by pressing the “guide” key.
2. Press ◀ and ▶ button to navigate through the functions. Press the OK button to highlight and activate the desired function. If the selected function has a sub-menu, press◀ and ▶ button again to navigate through the sub-menu. Press the OK button to highlight and activate the desired sub-menu function.
3. Press ◀ and ▶ button to change the settings of the selected function.
4. To exit from the OSD menu, press the MENU button. Repeat step 2 and step 3 to adjust any other function.

### 3.1.2 OSD Function Introduction

#### 1. Color

Select the image color you like from this function.



- **Mode:** There are standard, dynamic, soft, and monochrome preset modes.
- **Brightness:** To adjust the luminance ranging from 0 to 100. The \* / ◀ button is a hotkey to activate this function.
- **Contrast:** To adjust the contrast ranging from 0 to 100.

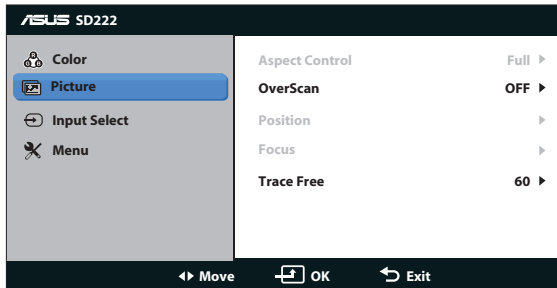
- **ASCR:** to switch between On and Off to enable or disable the Asus Smart Contrast Ratio function.
- **Saturation:** To adjust the color saturation ranging from 0 to 100.
- **Color Temp.:** There are three preset white balance modes (Cool, Normal, and Warm) and one User mode.
- **Gamma:** To alter the grayscale gamma between 2.2 and 1.8.



- In the User Mode of the Color Temp., the user may configure the value of the prime color R (red), G (green), and B (blue) ranging from 0 to 100.

## 2. Picture

You may adjust the Aspect Control, Over Scan, Position (VGA only), and Focus (VGA only) in this menu item.



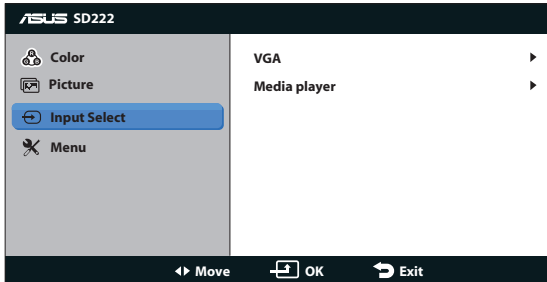
- **Aspect Control:** To alter the aspect ratio among “Full”, “4:3”, “Full Height” (only available for VGA input).
- **OverScan:** To adjust the over-scan ratio for the media player.
- **Position:** To adjust the horizontal (H-Position) and the vertical position (V-Position) of the image from the VGA input. The adjustable range is from 0 to 100.
- **Focus:** To reduces the horizontal-line and the vertical-line noise of the image from the VGA input by adjusting (Phase) and (Clock) separately. The adjustable range is from 0 to 100.
- **Trace Free:** To speed up the response time by Over Drive technology. The adjustable 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.

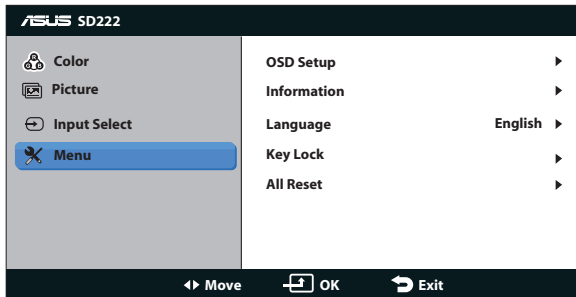
### 3. Input Select

Select the input source from VGA, Media player input signal.



### 4. Menu

Adjusts the system configuration.



- **OSD Setup:** To adjust the OSD Timeout, DDC/CI, Transparency, OSD Rotation, and Power indicator of the display.
- **Information:** To show the information of the display.
- **Language:** To select OSD language. The selections are: English, French, German, Spanish, Italian, Dutch, Russian, Traditional Chinese, Simplified Chinese, Japanese, Persian, Thai, Indonesian, Poland, Turkey, Portugal, Czech, Croatia, Hungary, Romania, and Korean.
- **Key Lock:** To disable all function keys. Long press the MENU button for over five seconds to active or cancel the key lock.
- **All Reset:** Selecting “Yes” to revert all settings back to the factory default values.



## 3.2 Specifications

<b>Model</b>	<b>SD222-YA</b>
Panel Size	21.5" (54.61 cm)
Max. Resolution	1920 x 1080
Brightness (Typ.)	250cd/m <sup>2</sup>
Intrinsic Contrast Ratio (Typ.)	1000:1
Viewing Angle (CR≤10)	178°(V); 178°(H)
Display Colors	16.7 M
Response Time (Typ.)	5ms (G to G <sub>o</sub> )
D-Sub input	Yes
Media player input	Yes
Power ON Consumption	40 W
Speaker	Yes
Earphone	Yes
Power saving mode	< 0.5 W
Power off mode	< 0.5 W
Tilt	-5° to +23°
Mounting Interface	100mm x 100mm
Phys. Dimension (WxHxD)	517.8 x 385.2 x 200 mm
Box Dimension (WxHxD)	570 x 109 x 392 mm
Net Weight (Esti.)	3.8 kg
Gross Weight (Esti.)	5.1 kg
Voltage Rating	AC 100~240V(External)

\*Specifications are subject to change without notice.

## 3.3 Get start with media player

### 3.3.1 Specification summary

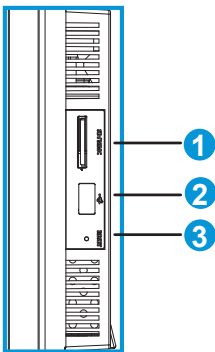
Supported video formats	MPEG1, MPEG2, MPEG4, VC-1, H.264
Supported video file extension	TRP, MP4, MOV, XVID, AVI, ASF, WMV, MKV, RM, RMVB 720p, FLV, TS, MTS, M2TS, DAT, MPG, VOB, ISO, IFO, M1V, M2V, M4V
Supported audio formats	MP3, WAV, OGG, FLAC, AIFF, TAG ID3
Supported image formats	JPEG, BMP, PNG, GIF, TIFF
Supported subtitle formats	SRT, SUB, SMI, SSA, TXT
I/O ports	1 x SD card reader(SDXC (NTFS & FAT32))
	USB2.0 Host Type-A

### 3.3.2 System requirement

1. Storage device (USB flash drive)
2. Memory card (SDXC (NTFS and FAT32))

### 3.3.3 Getting to know the media player

Item	I/O	Description
1	SD/MMC	Insert the SD/MMC card into this slot. (support up SDXC (NTFS and FAT32))
2	USB 2.0 port	Insert a USB 2.0 device into this port.
3	Reset Button	Press this button to reset to factory default settings.



### 3.3.4 Remote controller

Use the remote controller to browse through menus and select the media file to play, review or listen.

	1	Power On/ Off	Turn the media player on or off.
	2	Set Up	Press to set up.
	3	Source	press to select input source.
	4	Repeat	press to repeat.
	6	Return	Press to return to previous
	5,7,8, 9,11	Navigation / OK	Press the up/down and left/right keys to move through the main menu in the home screen and menu bar in a submenu. Press the left key to edit the selected file on return, rename and delete.
	10	Guide	Press to view the guide menu.
	12	Subtitle	Press to select the supported subtitle.
	13	Volume down	Decrease the volume.
	14	Mute	Press to disable audio input.
	15	Volume up	Increase the volume.
	16	Rewind	Press to rewind the playback.
	17	Play/Pause	Toggle between play and pause.
	18	Forward	Press to forward the playback.
	19	Previous	Return to the previous media file.
	20	Stop	Press to stop the playback.
	21	Next	Go to next media file.

### 3.3.5 Getting your media player ready

1. Turn on your display.
2. Switch input select to "Media player"

## **3.4 Using the media player**

### **3.4.1 Main Menu**

The main menu includes movie, music, photo, all media and set up.

\*\*All media allows you to view all media files in your storage.

### **3.4.2 Configuring the media player setting**

1. Press up/down key to navigate set up.
2. Press left/right key to navigate through Video, photo and system.
3. Press up/down key to navigate to the item you want to configure.
4. Press left/right to change different category.
5. Press OK to save.

### **3.4.3 Playing a movie**

1. Press up/down key and navigate to movie in the home screen.
2. Use up/down key to select your movie file and press OK.

### **3.4.4 Playing a music**

1. Press up/down key and navigate to music in the main screen.
2. Using up/down key to select your music file and press OK.

### **3.4.5 Configuring the audio playback settings**

The audio playback setting menu allows you to configure repeat

Press repeat to select playback options: Repeat off, Repeat on, Repeat All.  
Press OK to confirm selection.

\*\*Create a file named "repeatfile", media player will detect and auto play the file(s).

### **3.4.6 Viewing photos**

1. Press up/down key to navigate photos in the home screen.
2. Press up/down key to select the photo.
3. Press OK to browse the photos.
4. Press play, pause and stop to view, pause and end the photos in slideshow.




### **3.4.7 Setting background music for the slide show**

1. Select Music and play music files.
2. Press return key and return to main menu and go to photo to start photo slide show.

### **3.4.8 Renaming files/folders**

1. Select the files or folders you would like to rename from any of these Sources: USB and card reader.
2. Press edit key and select rename.
3. Use the navigation keys to move through the virtual keyboard to rename.
4. Press Enter on the virtual keyboard to confirm the new file or folder name.

## 3.5 Troubleshooting (FAQ)

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

Problem		Possible Solution
<b>Display</b>	I cannot find any of my music, move or photo files.	<ul style="list-style-type: none"> <li>• Ensure that your media server(ex, USB device) is properly placed in the slot</li> <li>• Ensure the files are supported file formats and are not damaged.</li> </ul>
	Certain files cannot be played on the media player.	<ul style="list-style-type: none"> <li>• The media player may not support video or audio format used in the file..</li> <li>• Please refer specifications summary in chapter 1.</li> </ul>
	How do I play entire list of video, music and photo?	<ul style="list-style-type: none"> <li>• When selecting a video, music or photo to play, press the OK button on the remote control plays just the selected file while pressing PLAY/ PAUSE key to play the entire list of files..</li> </ul>
<b>Audio</b>	How do I get the subtitle to play?	<ul style="list-style-type: none"> <li>• Media player detects and displays the movie subtitle. Go to Set up&gt;System&gt;subtitle decoding</li> </ul>
<b>USB storage device</b>	I cannot find any of my music, movie or photofiles.	<ul style="list-style-type: none"> <li>• Ensure that your USB storage device is not in standby mode.</li> <li>• Ensure that the fiels are supported file formats and are not damaged.</li> </ul>
	The media player does not recognize my USB storage device.	<ul style="list-style-type: none"> <li>• Your USB storage device may not be detected because of problems with the USD hardware. Try to re-plug the USB storage device to the USB port again or use another USB storage device.</li> </ul>
<b>Remote Control</b>	The media player remote control is not working.	<ul style="list-style-type: none"> <li>• Ensure that the battery is properly inserted.</li> <li>• The battery may already be drained out. Replace the battery with a new one.</li> <li>• Ensure that the path between the remote control and the media player is not blocked.</li> </ul>
<b>Firmware Updates</b>	How do I update my firmware?	<ul style="list-style-type: none"> <li>• Download updated firmware on ASUS website and go to Setup&gt;Firmware&gt;USB upgrade to perform the firmware upgrade progress.</li> <li>• If you are still unable to update firmware, reset the system and perform the updating process again.</li> <li>• If the Media player is shut down or powered off during the software installation, the update will fail and please attempt again.</li> </ul>
<b>Operation/ Function failure</b>	An operation/ function failed on my Media player, what can I do?	<ul style="list-style-type: none"> <li>• Using a pointed object, press the reset button located at the side of the display.</li> <li>• if you still encounter the same problem, please contact the ASUS technical support.</li> </ul>
<b>Additional information</b>	ASUS support site.	<ul style="list-style-type: none"> <li>• Download the latest firmwares, drivers and utilities from ASUS support site at <a href="http://support.asus.com">http://support.asus.com</a></li> </ul>

## 3.6 Supported Timing List

VESA / IBM Modes Support timing (D-SUB inputs)

Resolution	Refresh Rate	Horizontal Frequency
640 x 350	70Hz	31.469KHz
640 x 480	60Hz	31.469KHz
640 x 480	67Hz	35KHz
640 x 480	75Hz	37.5KHz
720 x 400	70Hz	31.469KHz
800 x 600	56Hz	35.156KHz
800 x 600	60Hz	37.879KHz
800 x 600	72Hz	48.077KHz
800 x 600	75Hz	46.875KHz
848 x 480	60Hz	31.02KHz
1024 x 768	60Hz	48.363KHz
1024 x 768	70Hz	56.476KHz
1024 x 768	75Hz	60.023KHz
1152 x 864	75Hz	67.5KHz
1280 x 720	60Hz	44.772KHz
1280 x 800	60Hz	49.702KHz
1280 x 960	60Hz	60KHz
1280 x 1024	60Hz	63.981KHz
1280 x 1024	75Hz	79.976KHz
1366 x 768	60Hz	47.712KHz
1440 x 900	60Hz	55.935KHz
1680 x 1050	60Hz	65.29KHz
1680 x 1050	60Hz	64.674KHz
1920 x 1080	60Hz	67.5KHz
1920 x 1080	60Hz	66.587KHz

\* The modes not listed in the above tables may not be supported. For an optimal resolution, we recommend that you choose a mode listed in the above table.