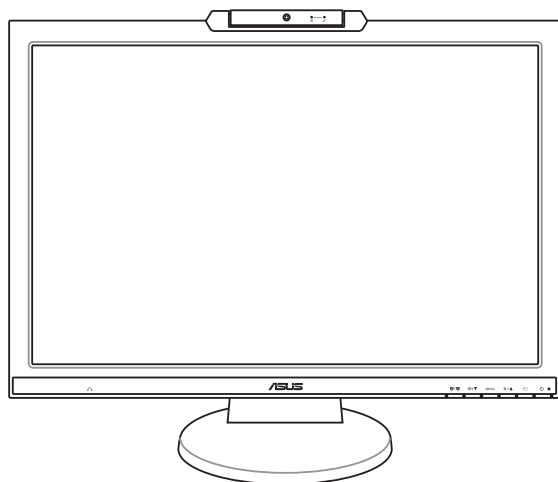




MK221 Series LCD Monitor

Quick Start Guide

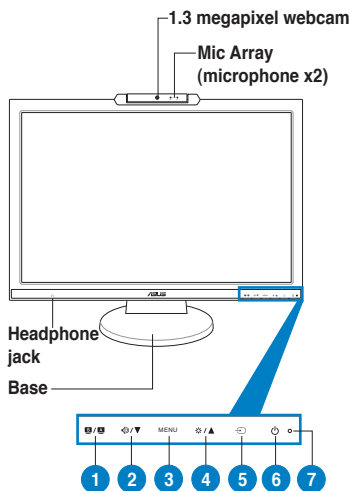


Safety information

- 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.
- 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 supplied to your home, consult your dealer or local power company.
- Use the appropriate power plug which complies with your local power standard.
- 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.

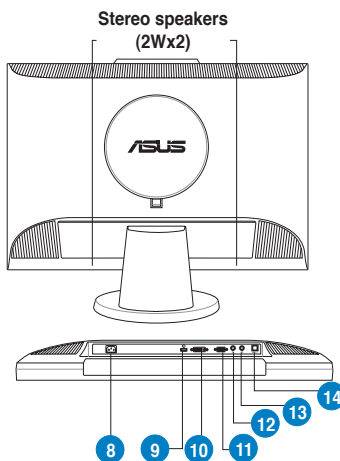
Monitor introduction

Front view



- | |
|---|
| 1. SPLENDID™*/Auto-adjust**/Exit MENU button |
| 2. Volume hotkey/Decrease button |
| 3. MENU/Enter/Selection button |
| 4. Brightness hotkey/Increase button |
| 5. Input select switch button (MK221H)
Auto-adjust button (MK221S) |
| 6. Power button |
| 7. LED indicator |

Rear view



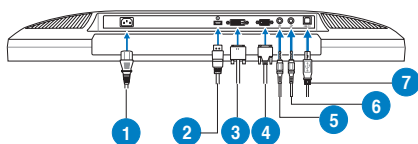
- | |
|---|
| 8. AC-in port |
| 9. HDMI port (MK221H only) |
| 10. DVI port (MK221H only) |
| 11. VGA port |
| 12. Audio out port |
| 13. Audio in port |
| 14. USB 2.0 port (upstream, for webcam and microphones) |

* Hotkey for 5 video preset mode selection.

** Adjusts the image automatically by pressing the button for 2–3 seconds (MK221H only).

Connecting the cables

Connect the cables as shown:



- | |
|------------------------------------|
| 1. Power cord |
| 2. HDMI signal cable (MK221H only) |
| 3. DVI signal cable (MK221H only) |
| 4. VGA signal cable |
| 5. Audio-out cable |
| 6. Audio-in cable |
| 7. USB 2.0 cable |



The HDMI cable and audio-out cable are purchased separately.




- **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.

Before you connect the cables, ensure that your PC is switched off or the power cord is unplugged from the wall socket.

- **To connect the signal cables:** connect one end of the signal cable(s) to the monitor, the other end to your computer or any other video device.



When the HDMI, DVI, and VGA cables are connected simultaneously, you can switch the input source from the **Input Select** item of the OSD functions, or by using the hotkey  on the front panel (MK221H only).

- **To connect the audio cable:** connect the audio cable from the monitor's audio-in port to the computer's audio-out port.
- **To connect to speakers:** Connect an audio-out cable from the audio-out port of the LCD monitor to the audio-in port of your speakers.

Built-in webcam with Mic Array support

The built-in 1.3 megapixel webcam with array microphones (Mic Array support) allows you to take pictures, have a video conference, or record audio-video clips. While chatting with friends via Internet-based communication tools, you can directly show your vivid image and clear voice with this device.

System requirements

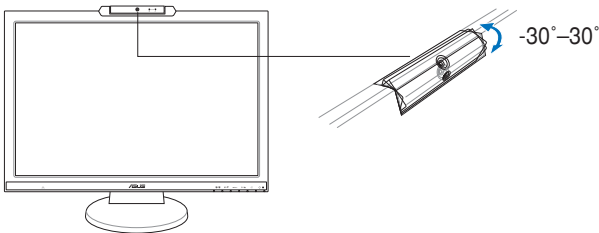
- A personal computer with Pentium® III 800 MHz or higher processor
- Microsoft® Windows® Vista / XP Service Pack 2 operating systems
- Minimum 200 MB free hard disk space to run the program
- 128 MB of RAM or above
- A display card supporting 16-bit high color mode



- Make sure that the bundled USB 2.0 cable is connected to both the LCD monitor and your PC. Otherwise, the webcam will not be activated.
- Make sure that you have installed the Windows® Vista / XP Service Pack 2 or later versions before using the device.

Using the device

- The device transmits images and sound to your PC through the USB 2.0 port. Therefore, make sure that the bundled USB 2.0 cable is connected to both the LCD monitor and your PC before you use the device.
- The webcam is adjustable upward and downward as shown.



Do not turn the webcam upward or downward over 30°; doing so might damage the webcam.

LifeFrame 2 software

ASUS MK221 provides the easy-to-use LifeFrame 2 software that can work with the webcam, allowing users to create their own photos or video clips.






- LifeFrame 2 only supports Microsoft® Windows® Vista/XP Service Pack 2 operating systems.
- The LifeFrame 2 software is bundled in the support CD.

Installation instructions

1. Close all other applications.
2. Insert the support CD into the optical drive and run the LifeFrame 2 program.
3. Follow the on-screen instructions to complete the installation

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 2–3 seconds to automatically adjust the image (VGA input only). Adjust the H-Position or V-Position settings via OSD (VGA input only).
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 away 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 All 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 2–3 seconds to automatically adjust the image (VGA input only). Adjust the Phase and Clock settings via OSD (VGA input only).
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.
Webcam or array microphone is not working	<ul style="list-style-type: none"> Make sure that you have connected the USB 2.0 cable securely to both the LCD monitor and your computer. Make sure that you use the Microsoft® Windows® Vista / XP Service Pack 2 operating systems.

Supported operating modes

Standard	Resolution Frequency	Vertical Frequency	Horizontal Frequency	Pixel
DOS	720 x 400	70Hz	31.47KHz	28.32MHz
VGA	640 x 480	60Hz	31.47KHz	25.18MHz
	640 x 480	72Hz	37.90KHz	31.50MHz
	640 x 480	75Hz	37.50KHz	31.50MHz
SVGA	800 x 600	56Hz	35.16KHz	36.00MHz
	800 x 600	60Hz	37.90KHz	40.00MHz
	800 x 600	75Hz	46.90KHz	49.50MHz
WVGA	848 x 480	60Hz	31.02KHz	33.75MHz
XGA	1024 x 768	60Hz	48.40KHz	65.00MHz
	1024 x 768	70Hz	56.50KHz	75.00MHz
	1024 x 768	75Hz	60.02KHz	78.75MHz
XGA+	1152 x 864	75Hz	67.50KHz	108.00MHz
WXGA	1280 x 800	60Hz	49.62KHz	83.375MHz
	1280 x 720	60Hz	44.69KHz	74.375MHz
	1280 x 768	60Hz	47.78KHz	79.50MHz
	1280 x 768	75Hz	60.29KHz	102.25MHz
QVGA	1280 x 960	60Hz	60.00KHz	108.00MHz
SXGA	1280 x 1024	60Hz	64.00KHz	108.00MHz
	1280 x 1024	75Hz	80.00KHz	135.00MHz
WXGA	1360 x 768	60Hz	47.71KHz	85.50MHz
WXGA+	1440 x 900	60Hz	55.94KHz	106.00MHz
	1440 x 900	75Hz	70.64KHz	136.75MHz
WSXGA+ (Primary)	1680 x 1050	60Hz	65.29KHz	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.

* This monitor supports full HD (480i/p, 576i/p, 720p, 1080i/p) video contents from game consoles, DVD players and other consumer video devices.