



Acer Multi-function Monitor

M200A M230A User Guide

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Model Number: _____
Serial Number: _____
Purchase Date: _____
Place of Purchase: _____

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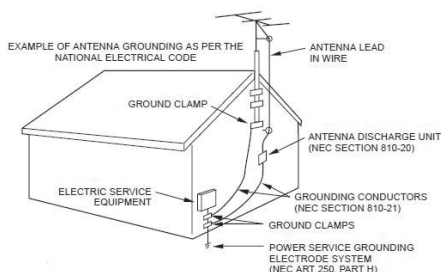
Important safety instructions

Read these instructions carefully. Please put them somewhere safe for future reference.

1. Only use attachments/accessories specified by the manufacturer.
2. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
3. Unplug this apparatus during lightning storms or when unused for long periods of time.
4. Do not install this equipment in a confined space such as a bookcase or similar unit.
5. No naked flame sources, such as lighted candles, should be placed on the apparatus.
6. If the remote control will not be used for a long time, remove the batteries. Use the remote control carefully. Do not drop the remote control on the floor. Keep it away from moisture, direct sunlight and high temperatures.
7. Used or discharged batteries must be properly disposed of or recycled in compliance with all applicable laws. For detailed information, contact your local solid waste disposal authority.
8. Follow all warnings and instructions marked on the product.
9. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
10. Do not use this product near water.
11. Do not place this product on an unstable cart, stand or table. The product may fall, sustaining serious damage.
12. Slots and openings 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. This product should never be placed near or over a radiator or heat register or in a built-in installation unless proper ventilation is provided.
13. 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.
14. Do not allow anything to rest on the power cord. Do not locate this product where the cord can be stepped on.
15. If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
16. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts, which could result in a fire or electric shock. Never spill liquid of any kind on the product.
17. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
18. 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. Improper adjustment of other controls could result in damage; extensive work by a qualified technician might then be required to restore the product to normal condition.
 - e. If the product has been dropped or the case has been damaged.
 - f. If the product exhibits a distinct change in performance, indicating a need for service.
- 19 Use only the proper type of power cord (provided in your accessories box) for this unit. Always disconnect the power cord from the wall outlet before servicing or disassembling this equipment.
 - 20 Do not overload an electrical AC outlet or power strip. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip input rating.
 - 21 Some products are equipped with a three-wire electrical grounding-type plug that has a third pin for grounding. This plug only fits into a grounded electrical outlet. This is a safety feature. Make sure the AC outlet is properly grounded. Do not defeat the safety purpose of the grounding-type plug by trying to insert it into a non-grounded outlet. If you cannot insert the plug into the outlet, contact your electrician to replace the outlet.
 - 22 Maintain ample distance from it when watching: Sitting too close can strain your eyes.
 - 23 Make sure there is sufficient distance between you and the monitor when you are viewing content to avoid harming your eyes.
 - 24 Do not expose this product to rain, moisture, dripping or splashing to reduce the risk of fire or electric shock.
 - 25 If an outside antenna is connected to your monitor, be sure the antenna system is electrically grounded to provide some protection against voltage surges and static charges. In the U.S. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



The grounding pin is an important safety feature. It is possible to receive an electric shock from a system that is not properly grounded.



The grounding pin provides protection against unexpected noise and interference that is produced by nearby electrical devices.

Disposal instructions

Do not throw this electronic device into the rubbish bin / container when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle.

For more information regarding WEEE, please refer to
<http://www.acer-group.com/public/Sustainability/sustainability01.htm>



Mercury advisory

For bulb-inside projectors or electronic products containing an non-LED-backlit-LCD/CRT monitor or display:

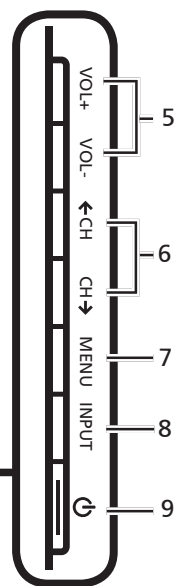
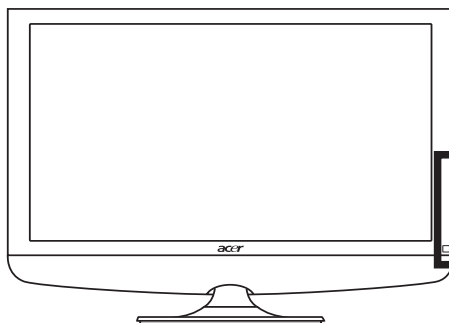
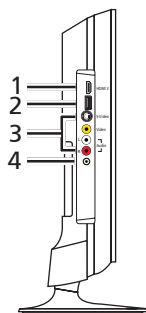


Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state or federal laws. For more information, contact the Electronic Industries Alliance at www.eiae.org. For lamp-specific disposal information, check www.lamprecycle.org.

Your monitor overview

Front panel view

1	HDMI
2	Service port
3	AV-in (S-video), CVBS, Audio L/R
4	Headphone* jack



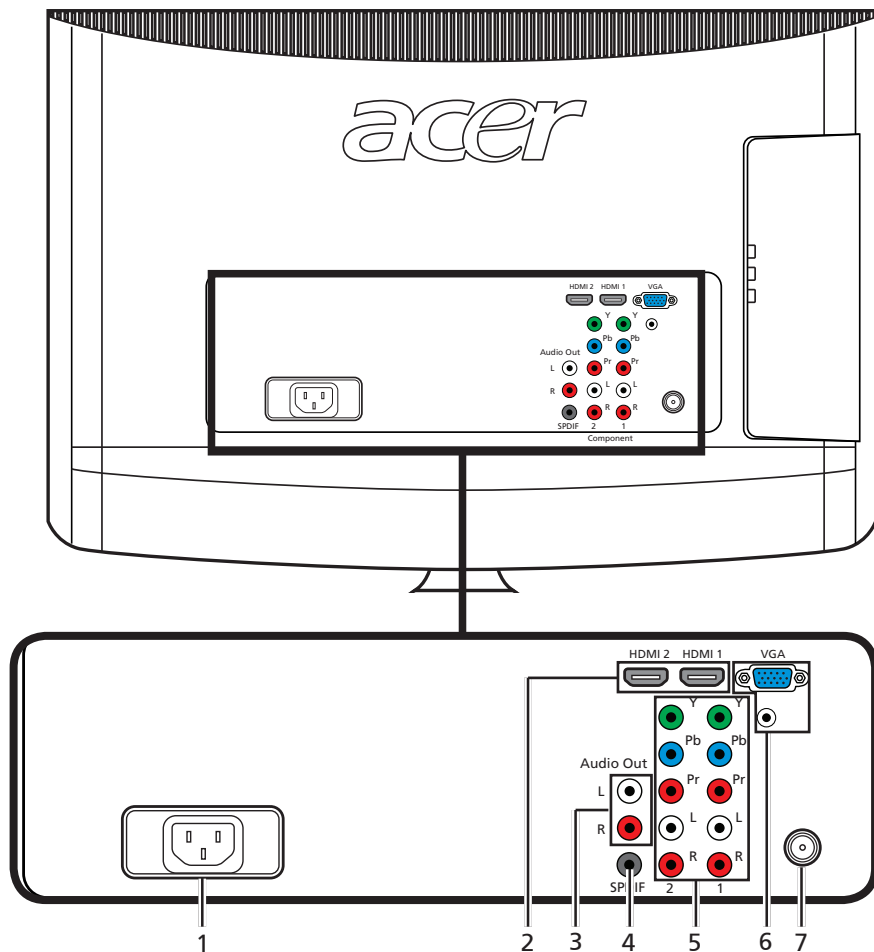
5		Volume up	When the OSD is on, functions the same as the Right arrow.
		Volume down	When the OSD is on, functions the same as the Left arrow.
6		Channel up	When the OSD is on, functions the same as the Up arrow.
		Channel down	When the OSD is on, functions the same as the Down arrow.
7		Menu key	Turns the OSD menu ON and OFF.
8		Input key	Press to change input source. When the OSD is on, press this button to confirm selection.
9		Power On/Off	Turns the power ON and OFF.



- * Ensure you adjust the sound to a comfortable level when using earphones or headphones. If the volume is too loud, you risk permanent damage to your hearing.
- * The speakers will mute automatically when connecting headphones

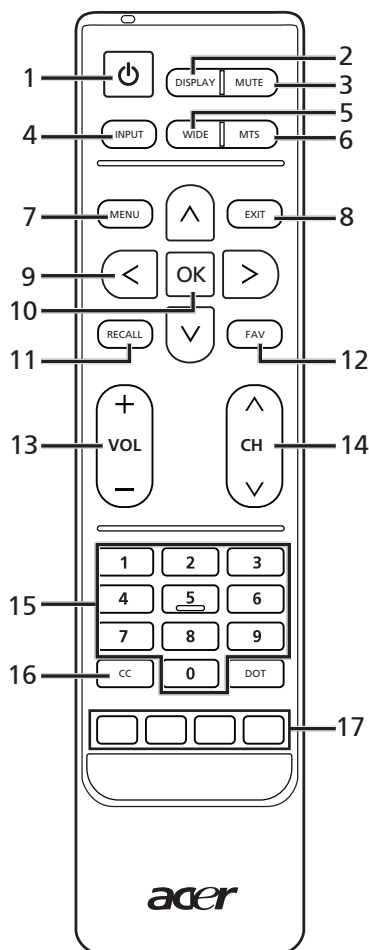
Rear panel view

1	AC-in	2	HDMI x 2
3	Audio out	4	SPDIF out
5	AV-in (Component) + Audio L/R x 2	6	VGA-in + PC Audio-in
7	Tuner*		



* Tuner supports analog, digital and mixed signals.

Remote control



- 1 POWER**
Press to turn your monitor on/off.
- 2 DISPLAY**
Press to display or change input/channel information (dependent on input/source type).
- 3 MUTE**
Press to toggle audio on and off.
- 4 INPUT**
Press to open a list of input sources.

- 5 WIDE**
Press to cycle scaling between Normal, Full, Zoom, and Cinema modes.
- 6 MTS**
Press to select the audio type, displayed in the top of right hand corner.
- 7 MENU**
Press to open or return to the previous Menu.
- 8 EXIT**
Press to exit Menu.
- 9 Directional keys**
- 10 OK/ENTER/CH LIST**
ENTER: Press to confirm channel number selection.
CH LIST: Press to launch the channel list.
- 11 RECALL**
Press to return to the previous channel.
- 12 FAV**
Press to select a favorite channel.
- 13 VOL (+/-)**
Press to increase or decrease the volume.
- 14 CH (up/down)**
Press to sequentially select the TV channel.
- 15 Number keys**
- 16 CC**
Press to turn closed captioning on or off.
- 17 Color buttons (R/G/Y/B)**
No function.



Remote control safety precautions

1. Do not take the batteries apart, heat them, or throw them into a fire.
2. Do not mix different types of batteries (such as alkaline and manganese batteries).
3. Do not mix old and new batteries.

4. Remove the batteries when not using the remote control for a long period of time.

Using a Remote Control of Satellite or cable

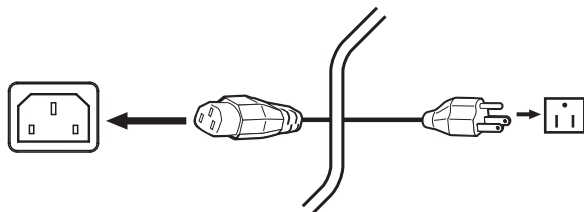
- Refer to your user guide on how to program the remote control.
- For remote uses 5-digit code, use code 11758 or 10178.
- For remote uses 4-digit code, use code 1758 or 0178.

BchY' Gca Y' Yngja Umbchk cf_ UgYl dYVW'X'cb'
.....nci f'WV'Y' #GUY' JH' fYa ch' Wbhc'"

Basic connections

Connecting the power cord

- 1 Connect the AC cord to the AC input on the back of the monitor.
- 2 Connect the plug to the wall outlet as shown.



A certified power cord that meets your country's legal requirements must be used with this monitor. You may also use an ordinary polyvinyl cord that meets IEC 60227 requirements or a synthetic rubber cord that meets IEC 60245 requirements.

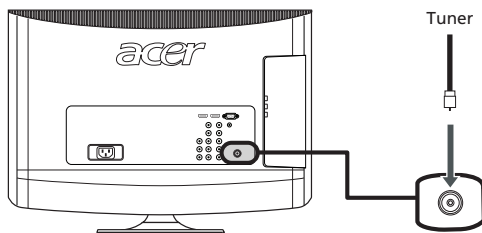
Setting up the remote control

- 1 Open the cover on the bottom of the remote unit.
- 2 Insert two AA batteries (supplied) to match the polarity indicated inside the battery compartment.

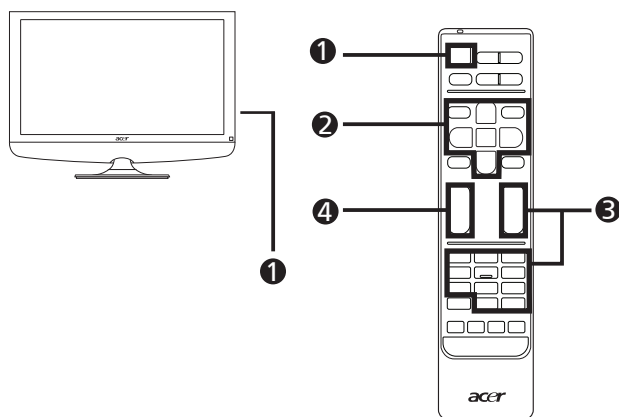
Enjoying analog and digital TV

Connecting an antenna/cable

Connect the antenna cable to the appropriate antenna terminal on the back of the monitor as shown below.



Getting started using your monitor



❶ Power

Turn on the power switch at the side of the screen.

or

Press the power button on the remote control.

❷ Setup Wizard

The first time you switch on the monitor, the Setup Wizard will guide you to complete the language selection and channel scanning.

Using the directional keys to begin the setup process.

Step 1. Select the setup language you prefer.

Step 2. Select the correct **Time Zone**, **DST** (Daylight Saving Time) and **Time Format** using the remote control.

Step 3. Set the TV source to Air or Cable.

Step 4. Ensure that your coaxial cables are connected correctly before proceeding.

Step 5. Scan for digital channels and analog channels.

Step 6. Setup is now complete. You are ready to begin watching TV.



If you leave the setup process before it is complete, you will be asked if you want to:

1. Resume setup wizard at next startup.
2. Exit and run channel auto scan from the OSD.

③ Changing channels

Enter the desired channel with the 0-9 and " - " keys. The channel will change after 2 seconds. Press enter with "OK" to change the channel immediately.

or
Pressing the channel (CH) up / down button on the remote control will also change the channel.

④ Adjusting the volume

Adjust the volume level using the (VOL) up/down button on the remote control.



Setup may vary due to local broadcast differences.



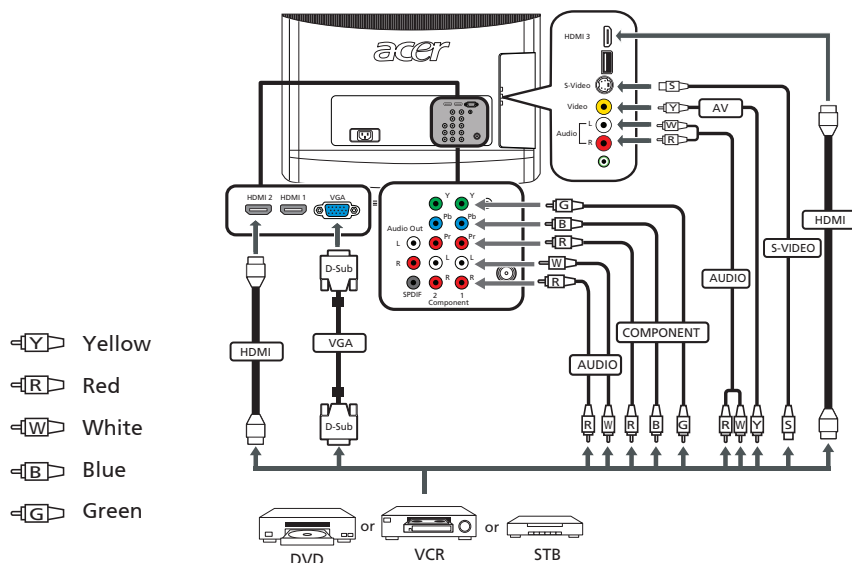
You can also adjust these settings using the front control panel. Please see "Front panel view" on page 6 for details.

Connecting external audio/video devices

Connecting a DVD, VCR, STB or audio/video equipment

Connect your DVD player, VCR or audio/video equipment using the AV port located at the rear of your monitor as shown below.

Source-in

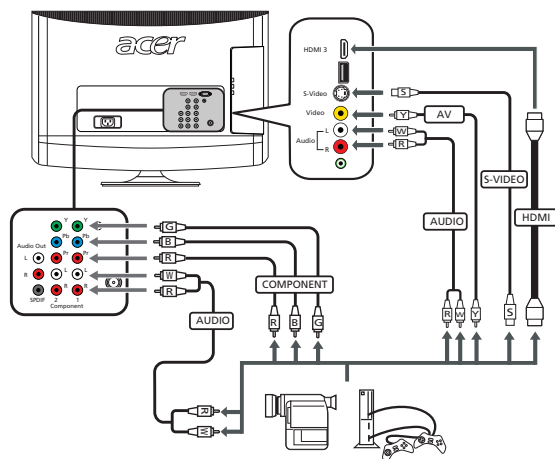


* To get better picture quality, Acer recommends the following priority for connection types:

HDMI -> Component -> S-Video -> Composite.

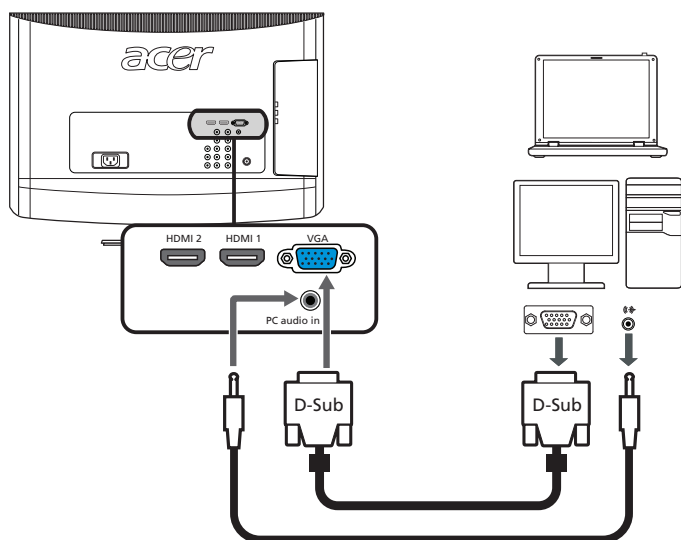
Connecting a camera, camcorder or game console

Connect your camera or camcorder to the video/audio ports on the left of the monitor as shown below.



Connecting a PC or notebook computer

To display PC output on your monitor, connect your PC or notebook computer to the monitor as shown below.

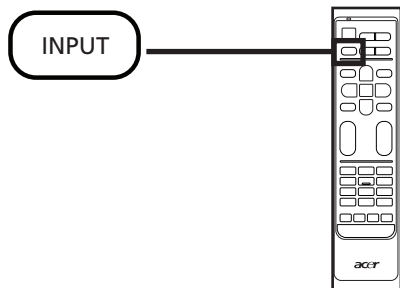


For VGA connections, Acer recommends setting your PC's external monitor resolution to 1600 x 900 pixels (M200A) or 1920 x 1080 (M230A) @ 60 Hz refresh rate.

Selecting the input source

Once you have connected your antenna or external equipment to the monitor, you need to select the correct input source.

Press the **INPUT** button on the remote control to select the correct input source.

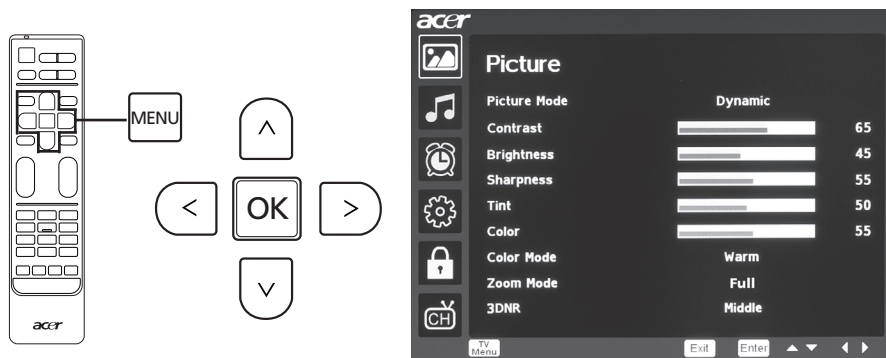


OSD navigation

Many of the advanced settings and adjustments are available through using the OSD (onscreen display) menus, as shown in the example screenshot below.

Basic operations required to navigate these menus (Picture, Audio, Time, Setup, Lock and Channel) are described in this section.

Navigating the OSD with the remote control



You can also interact with these menus using the right panel controls. Please see "Front panel view" on page 6 for details.

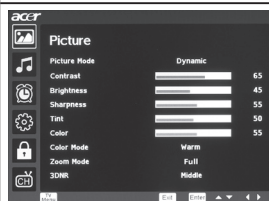
There are six main OSD menus. These are: Picture, Audio, Time, Setup, Lock and Channel. The following controls will assist you in navigating the OSD menus.		
1		Press the MENU button on the remote control or the MENU button on the control panel.
2		Select your desired menu by using the up and down directional keys to switch between the six menus.
3		Use the directional keys to interact with the menu. The up / down directions will scroll through the menu options, while left / right will adjust the different settings (for example, in the Picture menu, settings such as brightness, contrast, etc.). Press EXIT to exit.

Adjusting the OSD settings

The OSD can be used for adjusting the settings of your monitor.

Press the **MENU** key to open the OSD. You can use the OSD to adjust the picture quality, audio settings, channel settings and general settings. For advanced settings, please refer to following page:

Adjusting the picture quality



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Picture** from the OSD. Then navigate to the picture element you wish to adjust.
- 3 Use the left or right keys to adjust the sliding scales.
- 4 The **Picture** menu can be used to adjust the current **Picture Mode, Contrast, Brightness, Sharpness, Color,** and other image-related qualities.

Adjusting the audio settings



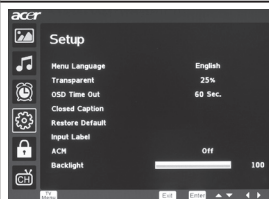
- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Audio** from the OSD. Then navigate to the feature you wish to adjust.
- 3 Use the left or right keys to adjust the sliding scale. Press **OK** to save.
- 4 The **Audio** menu can also be used to adjust the current **Equalizer, Balance, Treble, Bass, MTS, Surround Sound** and other important sound-related settings.

Adjusting the time settings



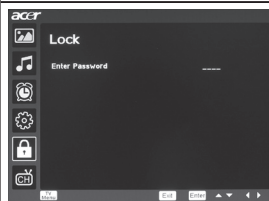
- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Time** from the OSD.
- 3 Use the directional keys to navigate the menus.
- 4 The **Time** menu can be used to adjust the **Sleep Timer, Time Zone, DST, Time Format, Auto Sync** and other important time-related settings.

Adjusting the setup



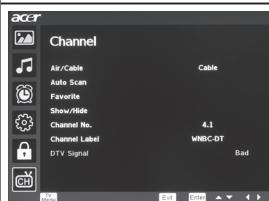
- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Setup** from the OSD. Then navigate to the feature you wish to adjust.
- 3 The **Setup** menu can be used to adjust the **Menu Language, OSD Time Out, Closed Caption** and other important settings.

Adjusting the Lock settings



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Lock** from the OSD. Enter your password, then navigate to the feature you wish to adjust.
- 3 The **Lock** menu can be used to adjust the **Change Password, System Lock, Unrated Lock, Input Block** and other important settings.

Adjusting the channel settings



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Channel** from the OSD.
- 3 Use the directional keys to navigate the menu.
- 4 The **Channel** menu can be used to adjust **Air/Cable, Auto Scan, Favorite, Show/Hide** and other important channel-related settings.



The options available on the OSD may vary depending on the signal source and model. Some digital options may not be available with an analog signal and vice versa.


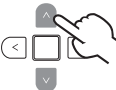


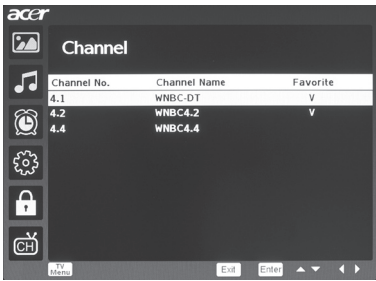


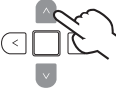
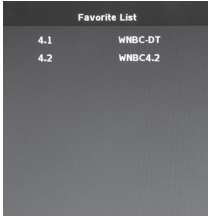


The default password for this monitor is "0000" First enter "0000" when you want to change the password. If you forget your password, please enter 6163 to reset.

Favorite channel mode in TV mode

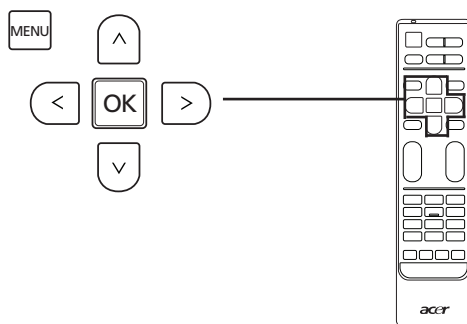
Favorite channel allows you to store your favorite TV channels and flick between them at the touch of a button.

To set Favorite channel as the default, follow the steps described on this page.

Storing favorite channels		
1		Press the Menu key from the remote control hand set, to invoke the OSD.
2		Use the directional keys to navigate and select  Channel.
3		 <p>Using the directional keys, navigate to and select Favorite from the OSD. Navigate to a channel and press the OK key to add/remove the selected channel from the favorites list.</p>
4		Press EXIT to exit.
Viewing your favorite channels		
1		On the remote control, if you press the FAV key, the monitor will display the list of favorite channels.
2		 <p>Using the directional keys, navigate to your chosen channel and press OK to select it.</p>

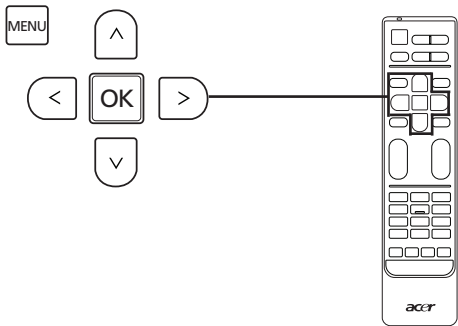
Advanced features

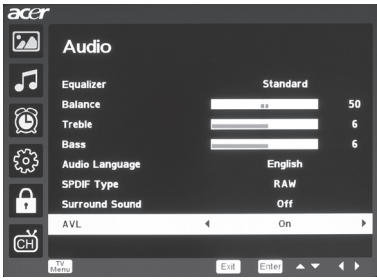
Advanced Picture Adjustment



Advanced Picture Adjustment		
1		Press the Menu key from the remote control hand set, to invoke the OSD.
2		<p>Using the directional keys to navigate, select Setup from the OSD. Using the directional keys. Then, navigate to 'ACM' and 'Backlight'.</p>
3		<ul style="list-style-type: none"> • ACM: This function (Adaptive Contrast Management) automatically adjusts picture contrast, depending on the brightness of the video content. You can turn this feature On or Off. • Backlight : This setting adjusts the picture displays Backlight / Brightness. Use the Left or Right direction keys to adjust this feature.
5		Press EXIT to exit.

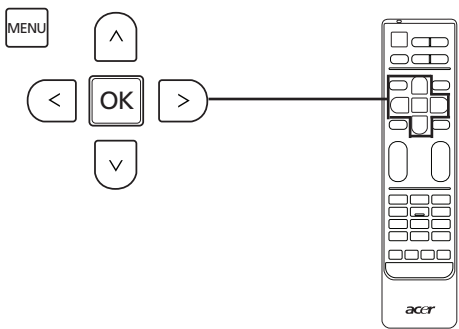
AVL (Auto Volume Level)



AVL (Auto Volume Level)		
1		Press the Menu key from the remote control hand set, to invoke the OSD.
2		<div></div> Using the directional keys , navigate to and select Audio from the OSD. Then, navigate to AVL to adjust settings.
3		This function prevents sudden changes in the audio output level. If this function is selected as On , volume levels will be consistent when switching between input sources and changing channels.
4		Press EXIT to exit.

Auto scan for channels

The first time you completed the setup wizard, all available channels were listed. If you need to re-scan for new channels, please follow the steps below:

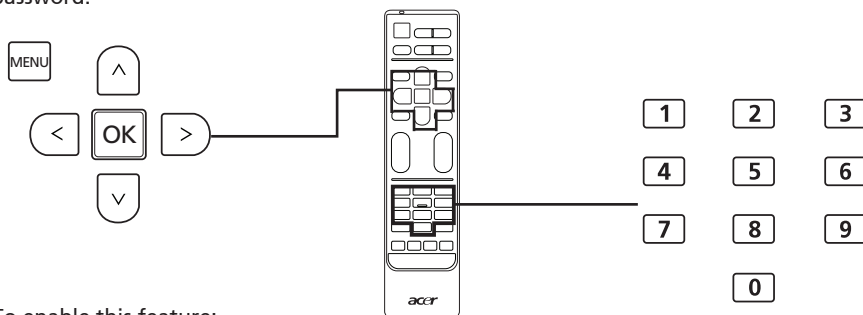


Scanning for channels		
1		Press the MENU key on the remote control to bring up the OSD.
2		Use the directional keys to navigate and select Channel.
3		Highlight Auto Scan . Then, select Scan all channels and press the Right arrow key to begin.
4		
5		Press EXIT to exit.

Locking TV content

Locking TV content is a handy feature that can block all TV sources.

Locking TV content allows you to control who has access to the TV with a simple password.



To enable this feature:

Setting a password		
1		Press the MENU key on the remote control to bring up the OSD.
2		Using the directional keys , navigate to and select Lock from the OSD. Then, navigate to the Enter Password menu and enter the password (see note).
3		Once your password has been entered, you can select Change Password , System Lock , Unrated Lock or Input Block for further settings.
4		Press EXIT to exit.



The default password for this monitor is "0000" First enter "0000" when you want to change the password. If you forget your password, please enter 6163 to reset.

TV ratings

Most TV allows you to block content according to rating systems. The rating system available is dependent on region.

TV Parental Guidelines

You can block TV programs depending on their rating. This function allows you to control what your children are watching.

- TV-Y: Young children / TV-Y7: Children 7 and over / TV-G: General audience / TV-PG: Parental guidance / TV-14: Viewers 14 and over / TV-MA: Mature audience
- ALL: Lock all TV ratings. / FV: Fantasy violence / V: Violence / S: Sexual situation / L: Adult Language / D: Sexually Suggestive Dialog

MPAA Rating

You can block movies depending on their MPAA rating. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advance information on which films are appropriate for children.

- G: General audience (no restrictions).
- PG: Parental guidance suggested.
- PG-13: Parents strongly cautioned.
- R: Restricted. Children under 17 should be accompanied by an adult.
- NC-17: No children under age 17.
- X: Adults only.
- NR: Not rated.

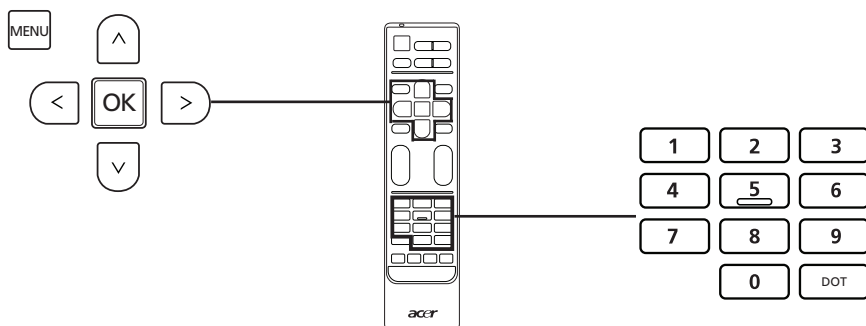
Canadian English

- C: Programming intended for children under age 8.
- C8+: Programming generally considered acceptable for children 8 years and over to watch on their own.
- G: General programming, suitable for all audiences.
- PG: Parental Guidance.
- 14+: Programming contains themes or content which may not be suitable for viewers under the age of 14.
- 18+: Adult programming.

Canadian French

- G: General
- 8 ans+: Programming generally considered acceptable for children 8 years and over to watch on their own.
- 13 ans+: Programming may not be suitable for children under the age of 13.
- 16 ans+: Programming is not suitable for children under the age of 16.
- 18 ans+: Programming restricted to adults.

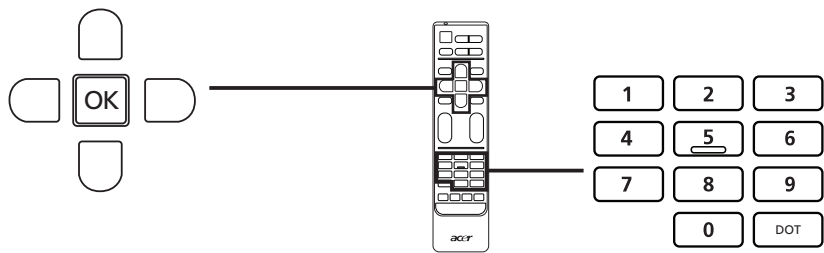
Setting or changing the ratings



To set or change your TV ratings settings:		
1		Navigate to the channel you wish to manage and make sure that the channel is unlocked.
2		Press the MENU key on the remote control to bring up the OSD.
3		Using the directional keys , navigate to and select Lock from the OSD. Navigate to the Enter Password menu.
4		Enter your Password. Then, select US or Canada and using the directional keys , enter the sub-menu and set the age rating. Press OK to confirm your settings (see note on page 24).
5		Press EXIT to exit.

Channel list

Channel list allows you to quickly find the TV channel you are searching for.

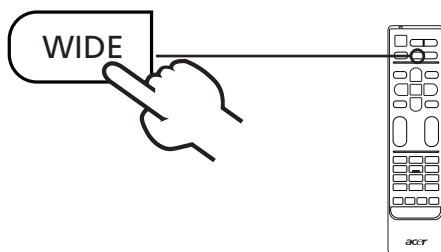


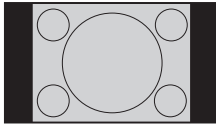
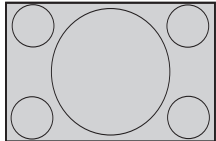
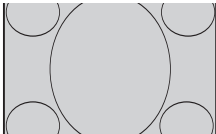
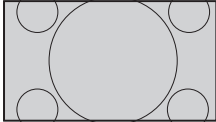
To open the channel list feature:		
1		Press the OK key on the remote control. This will bring up the channel list menu.
2		The current channel will be highlighted.
3		Use the directional keys to navigate the list and select the channel you wish to watch.
4		Press OK to confirm.

Widescreen display mode

Your Acer monitor has a special widescreen mode that allows you to toggle between Normal, Full, Zoom, and Cinema type views.

Press the **WIDE** key on the remote control to cycle the display between the four wide modes.



Normal	
	For 4:3 standard pictures. A side bar appears on each side.
Full	
	In this mode, the screen will display 16:9 standard pictures.
Zoom	
	In this mode, 4:3 content is changed to 16:9, and 16:9 content is changed to 14:9.
Cinema	
	In this mode, the aspect ratio is maintained and content is zoomed to fit the screen.

Troubleshooting

Before you call the Acer service center, please check the following items:

Here is a list of possible situations that may arise during the use of your monitor. Easy answers and solutions are provided for each.

Your monitor has no power.

- Test power button on monitor rather than remote control.
- Make sure the input mode is correctly set for your desired input.
- Make sure the main power switch is turned on.
- Make sure the power outlet is working properly and supplying the proper voltage.

No picture is displayed.

- Make sure the input mode is correctly set for your desired input.
- Make sure the antenna at the rear of the monitor is properly connected.
- Make sure the input source (i.e. DVD player) is working properly.
- Make sure the power is ON.
- Try a different cable.

No sound is heard.

- Make sure the volume is not set to minimum or the sound is not set to mute.
- Make sure the headphones are not connected.
- Make sure the MUTE key is not pressed.
- Make sure the audio connections are connected properly.

Picture is not clear.

- Make sure the antenna cable is properly connected.
- Consider whether your monitor signal is being properly received.
- Poor picture quality can occur due to a VHS camera, camcorder, or other peripheral being connected at the same time. Switch off one of the other peripherals.
- The 'ghost' or double image may be caused by obstruction to the antenna due to high-rise buildings or hills. Using a highly directional antenna may improve the picture quality.
- The horizontal dotted lines shown on the pictures may be caused by electrical interference, e.g., hair dryer, nearby neon lights, etc. Turn off or remove these.
- Try a different cable.

Picture is too dark, too light or tinted.

- Check the color adjustment.
- Check the brightness setting.
- Check the sharpness function.

Remote control does not work.

- Try new batteries in the remote control.
- Make sure the remote sensor window is not under strong fluorescent lighting or blocked by an object.
- Try to clean the remote control sensor lens on the monitor with a soft cloth.
- Use the buttons (hotkeys) on the monitor before the remote control works.

If the above suggestions do not solve your technical issue, please refer to the warranty card for service information.

PC input signal reference chart

M230A:

	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Standard
1	640 x 480	31.5	60.0	VGA
2	640 x 480	37.9	72.8	VGA
3	640 x 480	37.5	75.0	VGA
4	640 x 480	35.0	66.7	MAC
5	720 x 400	31.5	70.1	VESA
6	800 x 600	35.2	56.3	SVGA
7	800 x 600	37.9	60.3	SVGA
8	800 x 600	46.9	75.0	SVGA
9	832 x 624	49.7	74.6	MAC
10	1024 x 768	48.4	60.0	XGA
11	1024 x 768	56.5	70.1	XGA
12	1024 x 768	60.0	75.0	XGA
13	1152 x 864	67.5	75.0	VESA
14	1280 x 1024	64.0	60.0	SXGA
15	1280 x 720	45.0	59.9	VESA
16	1440 x 900	55.9	59.9	WXGA+
17	1680 x 1050	65.3	60.0	WSXGA+
18	1920 x 1080	67.5	60.0	UXGA
19	1920 x 1080	66.6	60.0	UXGA

M200A:

	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Standard
1	640 x 480	31.5	60.0	VGA
2	640 x 480	37.9	72.8	VGA
3	640 x 480	37.5	75.0	VGA
4	640 x 480	35.0	66.7	MAC
5	720 x 400	31.5	70.1	VESA
6	800 x 600	35.2	56.3	SVGA
7	800 x 600	37.9	60.3	SVGA
8	800 x 600	46.9	75.0	SVGA
9	832 x 624	49.7	74.6	MAC
10	1024 x 768	48.4	60.0	XGA
11	1024 x 768	56.5	70.1	XGA
12	1024 x 768	60.0	75.0	XGA
13	1152 x 864	67.5	75.0	VESA
14	1280 x 720	45.0	59.9	VESA
15	1280 x 800	49.7	59.8	WXGA
16	1600 x 900	60.0	59.9	WXGA+



-
- 1). The PC input does not support Sync on Green or Composite Sync.
 - 2). The PC input does not support interlaced signals.

Product specifications

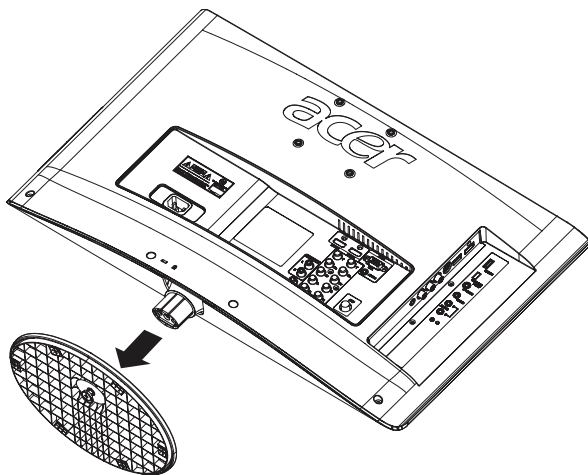
Model	M230A	M200A
Panel spec		
Resolution (pixels)	1920 x 1080	1600 x 900
Brightness (typ.)	300 nits	
Contrast Ratio (typ.)	1000:1	
Viewing angle (typ.)	H: 170° ; V: 160°	H: 160° ; V: 160°
Response (typ.)	5 ms (Gray to Gray)	
Power supply		
Input	110V-AC (50~60 Hz)	
Max. power consumption	75 W	75 W
Power saving	<1 W	
Mechanical		
Dimensions (W x H x D mm)	569.1 x 421.4 x 176.8	498.8 x 384.2 x 177.83
Weight (kg)	6.1	4.64
Weight (lbs.)	13.44	10.20
Gross weight (kg)	7.4	5.52
Gross weight (lbs)	16.3	12.14
Analog TV system		
Color system	NTSC	
Sound system	M	
Stereo system	BTSC	
Closed captions	Yes	
Digital TV system		
Digital TV standard	ATSC, Clear-QAM	
Sound system	ATSC A/52 AC-3, 48 KHz	
Stereo system	AC-3	
Frequency	6 MHz	
Terminal		
Analog/Digital tuner in	Hybrid	
Component-in 1	YPbPr, Audio (R/L)	
Component-in 2	YPbPr, Audio (R/L)	
AV-in	CVBS, S Video, Audio (R/L)	
HDMI 1	Yes (HDMI 1.3)	
HDMI 2	Yes (HDMI 1.3)	
HDMI 3	Yes (HDMI 1.3)	
PC D-sub in	Yes	
PC audio-in	Yes	
SPDIF out	Yes (Coaxial)	
Headphone out	Yes	
Service Port	Yes	
Resolution		
HDMI	480i/p, 720p, 1080i, 1080p	
Audio system		
Speakers	5 W+5 W	

Wall mount preparation / removing the base



Caution: Disassemble the base carefully otherwise the plastic parts and/or TV body may be damaged.

- 1) Unscrew the base screw and remove the base.



- 2) Assemble the wall mount following the instructions included with the wall mount.