



Acer LCD Color Monitor



English

acer



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1. The AC adapter isolates this equipment from the AC supply.
2. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a soft cloth to clean the monitor housing and a tape to stick dust and fingerprints on the screen panel.
3. Slots and openings on the back or top of the cabinet are provided for ventilation. They 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.
4. 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.
5. Never push objects of any kind, or spill liquid of any kind into this product.
6. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltages or other risks. If any above-mentioned misuse or other accident (dropping, miss-operations) occurs, contact qualified service personnel for servicing.
7. The power supply cord serves as a power disconnect device for plug gable equipment. The socket outlet shall be installed near the equipment and shall be easily accessible.

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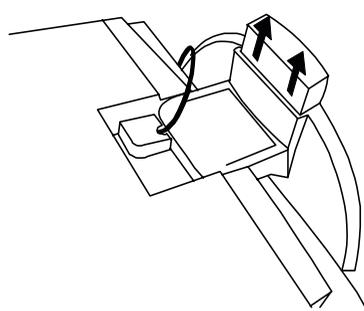
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Hardware Installation

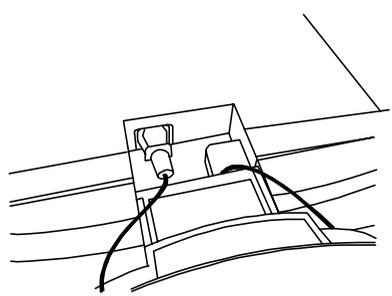
ⓘ Warning!!

For the reason of safety you have to pull the base out to prevent from tipping.

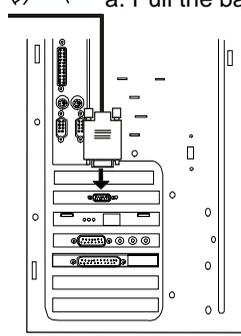
1. Make sure that the computer and monitor's power are both turned off . Please follow the steps to install your LCD monitor.



a. Pull the base out.



b. Connect the power cord to your LCD monitor.



c. Connect the VGA-Cable, that is directly attached to the monitor, to the VGA output of the graphics card on the computer.

2. Connect the power cord at the back of the monitor to an AC power socket. Please make sure, that the socket is not blocked or covered, so you can disconnect the unit from AC supply if you need to. Your monitor is equipped with an automatic power supply for a voltage range from 100 to 240 Volt at a frequency of 50 to 60 Hz. Be sure that your local power is within the supported range. If you are unsure, ask your electricity supplier.

Software Installation

2

a) Microsoft Windows® 95 / 98 / 2000

If you are using Windows® 95, Windows® 98 or Windows® 2000 as an operating system you have to set up the correct monitor driver.

Windows® 95

The first time you start Windows with a new monitor, the system will detect it and automatically installs the driver for plug and play displays. To install the current driver from DISK, proceed as follows:

1. Click "Start" then "Settings".
2. Double click the "display" icon in the control panel.
3. From the "Display properties" window, select the "Settings" tab. Click the "Advanced properties" button in the bottom right corner.
4. Select the "monitor" tab. Click the "change" button in the top right corner.
5. Now click the "Have disk" button in the bottom right corner. Another window appears, select the "Search" button.
6. The drive selection is located at the bottom of the window in the centre. Insert the DISK supplied with your monitor into your computer.
7. In the field of drive selection, change to the floppy driver. The current driver files are located there. Press "OK" and the window closes.
8. By pressing "OK" again in the next window you will be given a list of compatible devices. Select the model of your monitor from the list and press "OK" again.
9. Now you are back to "Advanced graphics properties". Close this window by clicking "OK" and confirm the following messages with "Yes" Click "OK" and "Yes" once more. The installation is now complete. You can now close "Display Properties".

Windows® 98

The first time you start Windows with a new monitor, the system will detect it and automatically starts the "Add new hardware wizard". Carry out the instructions beginning at step 4.

1. Open the control panel and double click on the "Display" icon.
2. From the "display properties" window, select the "Settings" tab. Click the "Advanced properties" button in the bottom right corner.
3. Select the "monitor" tab. Click the "change" button in the top right corner.
4. Now the "Add new hardware wizard" opens. Confirm by pressing the "Continue" button. Select "Search for a driver better than the one currently used" and press "Continue".
5. Insert the DISK supplied with your monitor and press on the "Search" field in the bottom right corner. Now select your floppy disk drive.
6. Press on "OK" again and then on "Continue" in the "Add new hardware wizard". The driver will now be installed. Close all windows to complete the installation.
7. Now a window "Insert Disk" emerges and one file "FP553.cat" cannot be found. Click "Skip File" to continue. This action will not harm your system or monitor. Close the "Display Properties" window and now the driver is installed to your computer.

Windows® 2000

The first time you start Windows with a new monitor, the system will detect it and automatically starts the "Add new hardware wizard". Carry out the instructions beginning at step 4.

1. Click "Start" then "Settings".
2. Open the control panel and double click on the "Display" icon. From the "display properties" window, select the "Settings" tab. Click the "Advanced properties" button in the bottom right corner.
3. Select the "monitor" then click "Properties".
4. Select "Driver" tab then click "Update Driver". The "Upgrade Device Driver Wizard" will pop up. Then Click "Next".
5. Select "Display a list of the known drivers for this device so that I can choose a specific driver" then click "Next".
6. In the next window, click "Have Disk", then "Install From Disk" window will pop up, click "Browse", the "Located File" will pop up. In this window, click on the arrow (▼) of "Look in" box, then select your floppy disk driver.
7. Click "Open" twice, then click "OK". Select the model of your monitor from the list in the next window then click "Next" twice.
8. The "Digital Signature Not found" window will appear, click "Yes", then click "Finish".
9. Now the new driver is installed to your computer.

b) Choosing the best resolution

Due to the technology of an LCD monitor, it always provides a fixed resolution. For this monitor, it is a resolution of 1024 x 768. This is called the so-called native resolution, which also represents the maximal resolution. Lower resolutions are displayed on a full screen through an interpolation circuit. Flaws do occur with the interpolated resolution compared to the native resolution. If you want to have all the advantages of LCD technology you must use the native resolution. Using Windows® 95/ 98/ 2000 you can change the resolution as follows:

1. Double-click the "Display" icon in the control panel.
2. From the "Display properties" window, select the "Settings" tab. There is a slider on the right-hand side in the middle of the window. There you can alter the resolution.
3. Set a resolution of 1024x768.
4. In the subsequent windows press: "Apply", "OK" and "Yes".
5. You can now close "Display Properties".

c) Refresh Rate Selection

There is no need to choose the highest possible refresh rate on a LC display. It is not technically possible for an LC display to flicker. Even at a refresh rate of 60 Hz you will get an absolutely flicker-free image. More important is that you make sure that you use one of the factory modes. In contrast to a modern CRT monitor, which is a multi-scan monitor, this model is a multi-frequency monitor. This means, the best results are only obtained by using the factory modes. You will find a table with the factory modes in this user's guide. For the native resolution of 1024x768, these, for example, are 60, 70 and 75 Hertz, not 72 Hz, however. In Windows® 95/ 98 / 2000 you can change the refresh rate as follows:

1. Double click the "Display" icon in the control panel.
2. From the "Display properties" window, select the "Settings" tab. Click the "Advanced properties" button in the bottom right corner.
3. Select the "Adapter" tab. The refresh rate selection field is located in the centre at the bottom of the window.
4. Choose a refresh rate from the table with the factory modes, which can be found in the user's guide, and select this in the settings field.
5. In the subsequent windows press: "Apply", "OK" and "Yes".
6. You can now close "Display Properties".

d) Picture Optimisation

The easiest way to obtain an optimal picture is by using the *iKey* function. If you are still not satisfied with the result, you can still attempt to enhance the image by means of manual adjust.

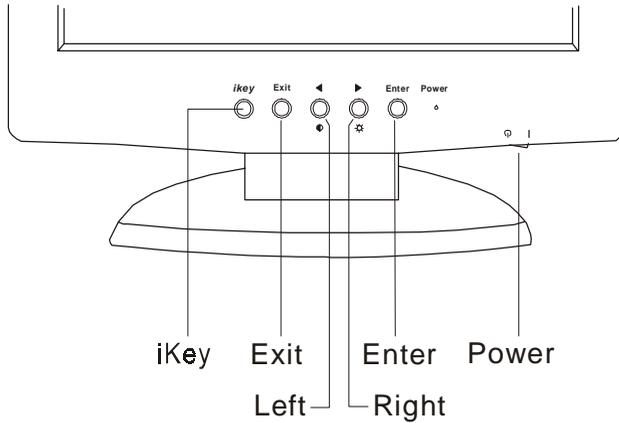
1. Start the auto.exe program from the DISK supplied with the monitor. A test pattern appears.
2. You can access the OSD menu by pressing the "Enter" button on the monitor.
3. Use Left/Right key on the monitor to navigate to the Geometry submenu and then press "Enter".
4. Use Left/Right key on the monitor to navigate to Pixel Clock submenu and press "Enter" to enter to the adjustment submenu. Use Left/Right key to tune the number of Pixel clock until the optimum picture appeared on your monitor.
5. Press "Exit" to go back to the previous menu. If you need further adjustment, press Left/Right key to select Phase submenu. Use Left/Right key to tune the number of Phase until the optimum picture appears on your monitor. Press "Exit" key three times to exit OSD.

If you are still not satisfied with the result, repeat the procedure using a different refresh rate.

You must use one of the factory modes. If the *iKey* is not working, or the "NON PRESET MODE" message is on the OSD you are not using one of the supported modes. If you are having difficulties generating a supported mode, ask the manufacturer of your graphics card for assistance.

Adjusting the monitor

3



There are 6 keys for user's control which includes "Power", "iKey", "Exit", "Enter" and "Left/Right key". The following descriptions are the introduction of these keys.

1. "Power": Turn the power on or off.
2. "iKey": Adjust vertical position, phase, horizontal position and pixel clock automatically.
3. "Exit" key: Back to previous menu or exit OSD.
4. "Enter" key: Enter sub-menu; select items-
5. "Left/Right key": Left/Right adjustment. Hot key for Brightness/Contrast adjustment.

Frequently Asked Questions (FAQ)

4

The image is blurred:

- Read the chapter, Installation/Adjustment and then select the correct resolution, refresh rate and make adjustments based on these instructions.
- Do you use a VGA extension cable?
Remove the extension cable for the test. Is the image now in focus? If not, optimise the image working on the description in the chapter, Installation/Adjustment. It is normal for blurring to occur due to conduction losses in extension cables. You can minimise these losses by using an extension cable with better conduction quality or with a built-in booster.
- Does the blurring only occur at resolutions lower than the native (maximum) resolution?
Read the chapter Installation/Adjustment. Select the native resolution.

Pixel errors can be seen:

- One of several pixels are permanently black, one or more pixels are permanently white, one or more pixels are permanently red, green, blue or another color.
Read the chapter "Pixel error".

The image has a faulty color appearance:

- It has a yellowey, bluey or pink appearance.
On the monitor press the "Enter" button and using the Left/Right key move to the "Miscellaneous" menu. Select the "Recall" item and press "Enter". If the image is still not correct and the OSD also has a fault color appearance, then one of the three primary colors is missing in the signal input. Now check the VGA cable contacts. If any pins are bent or broken off, then contact your dealer or read the chapters for additional help and service.

No image can be seen:

- Is the prompt on the display illuminated in green?
If the LED is illuminated in green, then press the "Enter" button on the monitor to access the On Screen Display. If the message "NON PRESET MODE" appears there, read the chapter Installation/Adjustment.
- Is the prompt on the display illuminated in orange?
If the LED is illuminated in orange, then the power management mode is active. Press a button on the computer keyboard or move the mouse. If that does not help, then check the VGA cable contacts. If any pins are bent or broken off, then contact your dealer or read the chapters for additional help and service.
- Is the prompt on the display not illuminated at all?
Check the power supply mains socket, the external power supply and the mains switch.

The image is or distorted, flashes or flickers:

- Read the chapter, Installation/Adjustment and then select the correct resolution, refresh rate and make adjustments based on these instructions.

The image is displaced in one direction:

- Read the chapter, Installation/Adjustment and then select the correct resolution, refresh rate and make adjustments based on these instructions.

Need More Help?

If your problems remain after checking this manual, please contact your place of purchase or e-mail us at: DPLservice@acercm.com.tw

Pixel errors & Supported Operating modes

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Due to the technology used to build LCD-modules, pixel errors are unavoidable. A standard 1024 x 768 display has 786,432 pixels. Each pixel consists of three subpixels (red, green and blue), which means there are 2,359,296 subpixels. This is also the number of driver transistors needed. If you wanted to make sure that every transistor on an LCD display is working properly, i.e. that there are no pixel failures, an enormous amount of waste would be produced and the price would also be exorbitant. Error rates have to be specified in order to produce LCD panels for a fair price. These error rates are given to us by the panel manufacturers.

| FP553 Incoming display mode(Input timing) | | | | | |
|--|----------------------------|-------------------------|-----------------------|---------|---------------------------|
| Resolution | Horizontal Frequency (KHz) | Vertical Frequency (Hz) | Pixel Frequency (MHz) | Comment | Actual Display Resolution |
| 640x350 | 31.47(P) | 70.08(N) | 25.17 | DOS | 1024X675 |
| 720x400 | 31.47(N) | 70.08(P) | 28.32 | DOS | Full screen 1024X768 |
| 640x480 | 31.47(N) | 60.00(N) | 25.18 | DOS | |
| 640x480 | 37.86(N) | 72.80(N) | 31.50 | VESA | |
| 640x480 | 37.50(N) | 75.00(N) | 31.50 | VESA | |
| 800x600 | 35.16(P) | 56.25(P) | 36.00 | VESA | |
| 800x600 | 37.88(P) | 60.32(P) | 40.00 | VESA | |
| 800x600 | 48.08(P) | 72.19(P) | 50.00 | VESA | |
| 800x600 | 46.87(P) | 75.00(P) | 49.50 | VESA | |
| 1024x768 | 48.36(N) | 60.00(N) | 65.00 | VESA | |
| 1024x768 | 56.48(N) | 70.10(N) | 75.00 | VESA | |
| 1024x768 | 60.02(P) | 75.00(P) | 78.75 | VESA | |

- *Modes, which are not listed in the above table, may not be supported. For an optimal picture it is recommended to choose a mode listed in the table.*
- *You have 12 available modes compatible with Windows. .*
- *It can happen that the image is disrupted. This can occur as a result of a signal frequency from the VGA card, which does not correspond with the usual standard. This is not, however, an error. You can improve this situation by altering an automatic setting or by manually changing the phase setting and the pixel frequency from the "Geometry" menu.*
- *If you switch off the monitor, interference lines can occur on your screen. But do not be concerned about this, as it is normal.*
- *To extend the service life of the product, we recommend that you use your computer's power management function.*

Technical Data

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|--|--|
| Model | FP553 |
| Display type | 15.0", active, TFT |
| Viewable diagonal | 38.1 cm |
| Native (maximum) resolution | 1,024 x 768 |
| Colors | 16.7 million |
| Contrast / brightness | 350:1 / 250 cd/m ² |
| Response time | 30 ms |
| Viewing angle (left/right, up/down) | 75/75, 70/70 |
| Dot pitch | 0.297mm |
| Line frequency | 31.47 - 60.24 kHz Multi- frequency monitor |
| image frequency | 56.25 - 75.0 Hz modes within these parameters |
| Image checks | Digital, Screen OSD Technology, <i>iKey</i> (automatic image setting) |
| Controls | mains switch, 4 buttons, <i>iKey</i> . |
| iScreen functions | Contrast, brightness, vert. & hor. image position, phase, pixel clock, color balance, color palette, choice of language (6 language OSD), OSD position, status indicator |
| Microprocessor control | 12 factory modes: 3 DOS modes, 9 VESA modes, |
| Power Management | VESA DPMS, EPA |
| max. power consumption | 30 Watt Max |
| Power saving mode | < 3 Watt |
| Input signal | RGB analog 0.7 Vpp/75 Ohm positive |
| Synchronisation | TTL separate, composite TTL |
| Signal connection | 15-pin mini D-sub cable |
| Temperature (operating) | 5 °C - 40 °C |
| air humidity (operating) | 20 % - 80 % |
| Certifications | TCO 99 (Optional), TÜV/Ergonomics, CSA, TÜV/GS, IEC950, FCC Class B, DSNF, ISO 13406-2, VCCI, UL, CB Report, CE, C-Tick, BSMI |
| Operating voltage | Automatic switched mode power supply, 90-264 V, 47-63Hz |
| Dimensions (W x H x D) | 358 x 390 x 170 mm |
| weight | 3.9 kg |