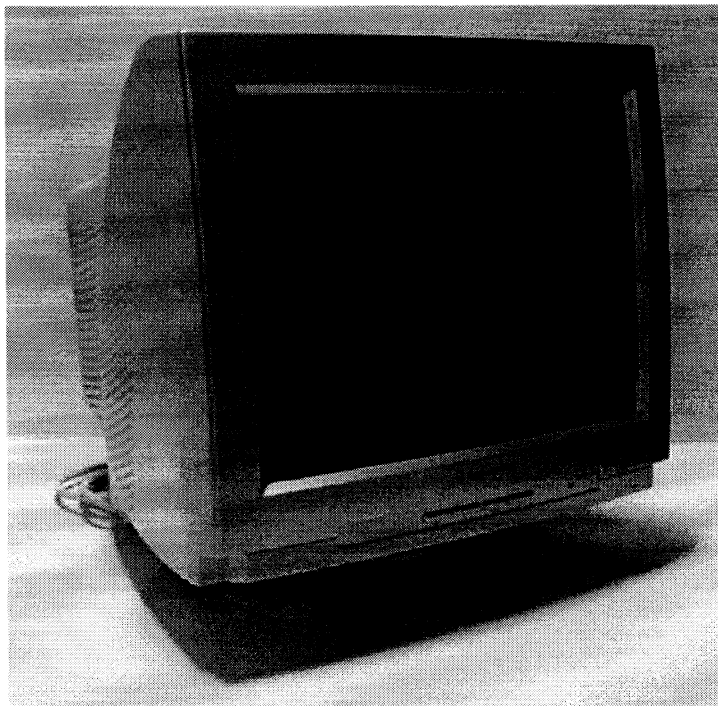


ATTACHMENT J – USER'S MANUAL

Congratulations on purchasing a *Packard Bell 17" A727* monitor. One of the most versatile monitors available today, the A727 monitor automatically adjusts its vertical and horizontal scanning frequencies to those of your computer's graphic displays, when used with SUPER VGA compatible graphics adapters and video chip sets (see Features).



NOTE: *In this document the monitor is displayed with speakers. However, these speakers are optional and may not be included with your monitor.*

This manual gives you information about your *Packard Bell A727 Monitor*, such as the locations of controls, safety instructions and instructions of how to connect.

INSTALLING YOUR MONITOR

While reading this document, your monitor is already connected to the computer and should function well. However, it is recommended to read this part to see if all connections have been made properly, if you can improve the placement of your computer, and to see what you should do the next time you (dis-) connect your monitor.

Choose the Right Environment

Set up your computer system in a dry, cool, properly ventilated area away from direct sunlight. (Direct sunlight could cause system overheating or damage to the system case and monitor.)

The monitor should be about **45-70 cm** from your eyes, and the top of your screen should be at eye level, or lower. The ideal position of your monitor is perpendicular to and at least **1.5 m** from a window or another light source, so that your monitor does not reflect glare and the light does not blind you. If your monitor has a tilt/swivel base, you can tilt it slightly downward to minimise reflected light. If you cannot adjust your monitor's angle or the lighting in your work area, try adding an anti-glare screen. Contact your Packard Bell dealer for further information.



Caution: *Before connecting your monitor and system's components, make sure all devices are turned OFF! Connecting devices with the system power on could damage your equipment. Position the monitor and the computer so that you can easily get to the rear panel of each unit.*

Attaching your Packard Bell speakers

FCC Warning

Class B Computing Device

Information to the User

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to part 15 of 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 the 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 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 into 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 and for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

FCC Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

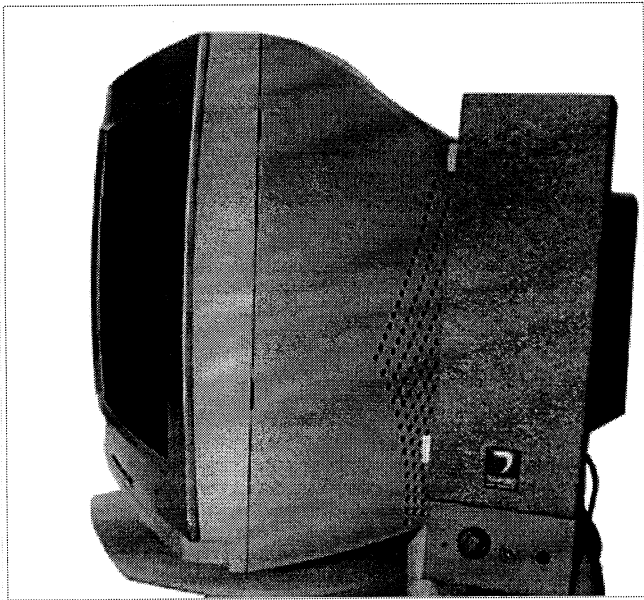
NOTE: In order for an installation of this product to maintain compliance with the limits for a Class B device, shielded cables must be used.

Packard Bell A727 17" Monitor

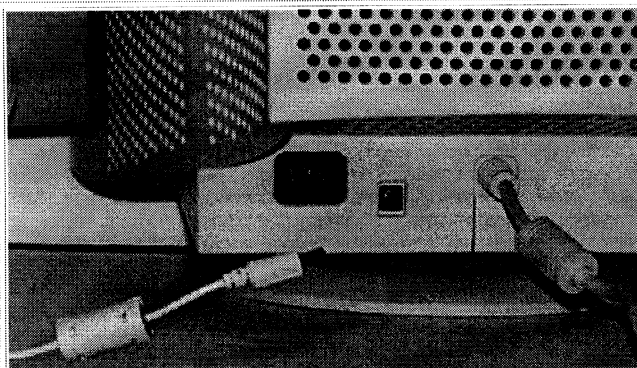
Your new computer includes Packard Bell's exclusive side-mount speakers. These speakers have been designed to attach easily to your Packard Bell monitor, providing optimal listening enjoyment and save desk space.

The side-mount speakers are designed for use only with matching Packard Bell monitors. To attach the speakers, follow these steps:

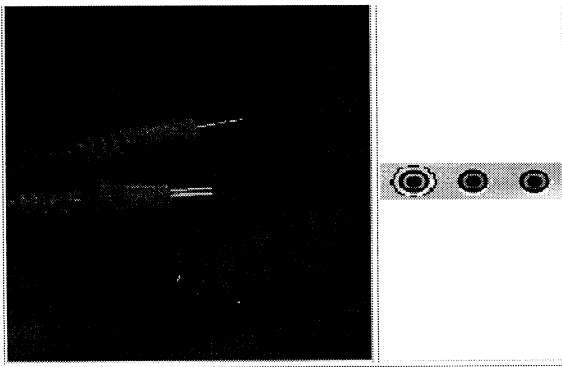
1. Place your monitor, speakers and adapters on a table that is well lit with plenty of room to work.
2. Place and secure each speaker by inserting and sliding down appropriately their metallic brackets into the corresponding grooves on the monitor sides.



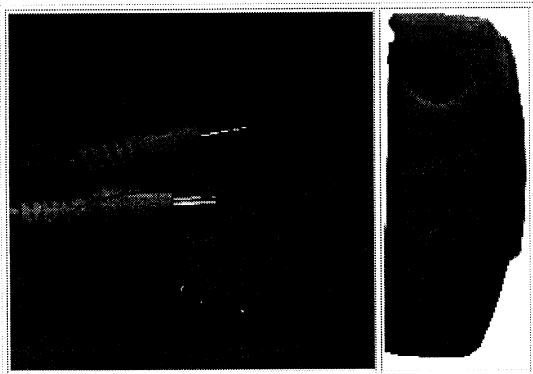
3. Connect the Right-Side speaker DC power cord to the DC power jack on the back of your monitor, which may appear on the left or right-hand side of the main power jack as illustrated below.



4. Connect the 3.5 mm stereo mini-plug audio cable from the right-side speaker STEREO INPUT jack to the STEREO OUTPUT jack of your computer's sound card.



5. Connect the remaining 3.5 mm mono mini-plug audio cable from the right-side speaker LEFT OUTPUT jack to the left-side speaker rear audio input jack.



The procedure of attaching your speakers may have changed after release of this manual. We apologise for any inconvenience this may cause.

Connecting the VGA signal cable to the computer

Make sure your system and monitor power is OFF. Carefully connect your VGA monitor cable's connector to the video (VGA) display port on your system's rear panel. According to PC99 requirements, the VGA plug and connector should be **blue-labelled**. Please find the following icon on the rear end of your computer and carefully connect the plug of the VGA cable to this connector:



Please tighten the screws on the VGA signal cable to keep it from coming loose, and to prevent radio and TV interference.

Connect Your Power Cord



Caution: Before connecting the power cord of your monitor, make sure that the speakers and the VGA cable have been correctly connected.

Make sure your system's and monitor's power is OFF. Find your monitor's power cord in the accessory kit in your computer's box. Connect your monitor's AC power cord to the AC Power Connector on the rear panel. Then plug the power cord into a surge protector (power strip) or grounded AC electrical outlet.

We recommend you switch on the monitor first, before switching on the computer!

Screen resolution and colours

Many VGA display systems can be configured to use different resolutions, with 640 x 400, 640 x 480, 800 x 600, 832 x 624, 1024 x 768 and 1280 x 1024 pixels being the most common. While higher resolutions offer more information on a given screen, they also reduce the size of the image, which makes most on-screen text harder to see from a comfortable distance.

Which resolution is right for you? This depends on the kind of work you do with your computer. If your work involves word processing, spreadsheets, data entry, and other 'text-heavy' tasks, you may want to use a resolution such as 800 x 600. While higher resolutions are recommended if you use software for drawing, painting, desktop publishing, or computer aided design (CAD), the ideal resolution really depends on what suits you best.

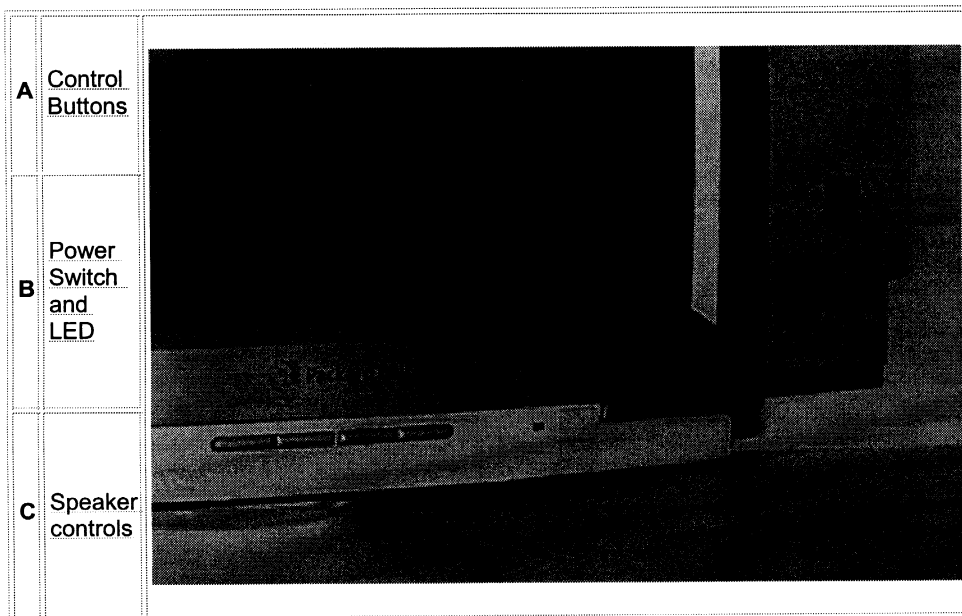
The number of colours you can use depends on the selected resolution and the available video memory. Most common are 256 colours, 65536 colours (high colour) and 16.7 million colours (true colour). By default, Packard Bell computers are configured in high colour. To change display settings, close all programs, with the exception of Windows, first. Then right-click with your mouse on an empty spot on the Windows desktop, click on **Properties** and select the **Settings** tab. Please make a note of the original settings before you make any change. This helps you to restore the original settings, should something go wrong.



Packard Bell has configured your software for optimum performance in the pre-selected screen resolution and number of colours. Changing the screen resolution or the number of colours may cause some programs to malfunction. If you wish to use these programs, please select the original settings.

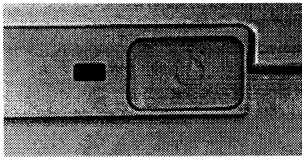
YOUR MONITOR'S CONTROLS

Your Packard Bell A727 monitor includes the following controls on the front panel:



Power Switch and LED

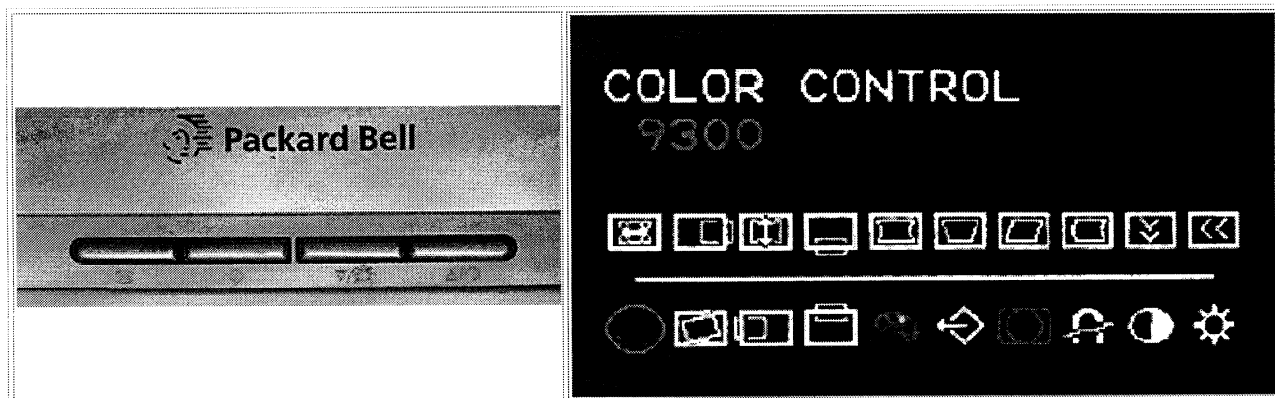
The Power Switch turns the monitor's power ON or OFF. The Indicator LED left from it is lit when the power is ON.



We recommend you switch on the monitor first, before switching on the computer!

Control buttons

Press the **MENU Button** to access the OSD menu. Press the **UP Button** or the **DOWN Button** to choose icon. Use the **SELECT Button** to choose the modification. Then the **UP** and **DOWN** buttons allow you to decrease or increase the value of the selected control. Press the **SELECT Button** to return and the **MENU Button** to exit the OSD. The Contrast and Brightness are directly accessible from the **UP** and **DOWN** buttons.

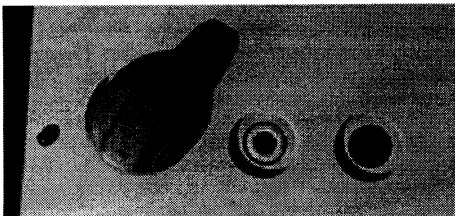


The following table will explain the signification of all icons.

	Horizontal size: Adjusts the horizontal size of the entire screen image.
	Horizontal position: Adjusts the horizontal position of the entire screen image.
	Vertical size: Adjusts the vertical size of the entire screen image.
	Vertical position: Adjusts the vertical position of the entire screen image.
	Vertical pincushion: If the vertical sides of the picture curve in or bulge out, you can correct the pincushion distortion by using this adjustment.
	Trapezoid: If the picture is wider at the top or at the bottom, you can correct the trapezoid distortion by using this adjustment.
	Parallel: If the sides of the screen image are tilted, you can correct the parallel distortion by using this adjustment.
	Pin balance: If the sides of the picture are bowed to the right or to the left, you can correct the pincushion balance by using this adjustment.

	Vertical moire: Clears vertical moire if a series of concentric circles or arcs appear on your screen.
	Horizontal moire: Clears horizontal moire if a series of concentric circles or arcs appear on your screen.
	Language Select: To select the required language.
	Rotation: If the entire screen image is tilted, you can correct the distortion by using this adjustment.
	OSD Horizontal position: Adjusts the OSD menu's horizontal position on the screen.
	OSD Vertical position: Adjusts the OSD menu's vertical position on the screen.
	Colour control: To select and adjust the required colour temperature.
	Recall: To recall the original factory display settings.
	Information: Information shows horizontal and vertical sync polarity of current timing set.
	Degauss: To degauss the display.
	Contrast: To adjust the contrast of the display.
	Brightness: To adjust the brightness of the display.

Speaker controls



The speakers can be controlled by the buttons on the right speaker. From left to right you will find:

Volume knob: Controls the output volume of your speakers. Please beware that Windows is also able to control the volume. Read more about this feature in the Windows documentation.

3D button: Push to switch 3D sound effects on or off.

Headphones connectors: Connect your headphones to mute the speakers and listen to your computer's sounds through your headphones.

SAFETY INSTRUCTIONS

Please follow the safety instructions outlined below, to benefit from your new monitor for a long time.

Placing your monitor

To reduce the risk of fire or electric shock, do not expose this monitor to rain or moisture.

To reduce eye fatigue, avoid using the display in direct sunlight or under bright lights.

Electric shock prevention

To prevent electric shock do not remove screws or cover. There are no user-serviceable parts inside the monitor. Service should be done only by a qualified service person.

Input power source: In many European countries, the wall outlets are 230 V, in a range from 200 to 240 V. Please check if your monitor supports your country's voltage.

A three core main cord is supplied with the PC which should be connected between the monitor power input socket and either the PC power output feed or a grounded wall outlet or surge protector.

Do not place anything heavy on the cord. A damaged power cord may cause fire or electric shock. If your power cord is damaged, do not use it. A replacement can be purchased at your local computer or electronics store.

Keep children and pets away from the monitor. Also, do not insert objects into the monitor's cabinets. They may touch dangerous voltage points, which can be harmful or fatal, or cause electric shock, fire or equipment failure.

Do not allow liquids to spill into the cabinet and do not use the monitor in humid environments such as bathrooms, damp cellars, near swimming pools, etc.

Do not operate the monitor beyond the specified temperature and humidity range (see Specifications).

For proper operation, keep the monitor adequately ventilated.

Keep the monitor away from strong magnetic fields produced by transformers, motors, fans, or other devices.

When an irregular AC voltage is supplied, a protective circuit may turn off the monitor (the power indicator will also go off). If this happens, turn off the power switch and wait at least 30 seconds before turning it on again.

Cleaning and maintenance

To avoid risk of electric shock, do not disassemble the display unit cabinet. The unit is not user-serviceable. Remember to unplug the display unit from the power outlet before cleaning.

Do not use alcohol (methyl, ethyl or isopropyl) or any strong dissolvent. Do not use thinner or benzene, abrasive cleaners or compressed air.

Do not wipe the screen with a cloth or sponge that could scratch the surface.

To clean your antistatic screen, use water and a special microfiber screen cleaning tissue used in optical lens cleaning, or lightly dampen a soft, clean cloth with water or a mild detergent.

To clean the monitor's unit cabinet, use a cloth lightly dampened with a mild detergent.

During the transportation of the monitor, the swivel base has to be removed in every case.

Radio frequency energy

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the 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 the receiver.
- Connect the equipment into 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.

Caution: Only shielded power and signal cables may be used with your system. The use of a non-shielded interface cable is prohibited. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment.

___TROUBLE SHOOTING

Before you call a Packard Bell Authorised Service Provider, please check the following:

I have no picture and the power indicator is not lit

Check if the AC Power Cord is plugged in and the power switch is on.

I have no picture and the power indicator is lit

Your computer may be in *Power Down* or *Sleep* mode. This is a temporary status in which your computer and monitor reduce power consumption. Try moving the mouse a little bit, or press the space key on your keyboard and wait for a few seconds.

It is also possible that the *Contrast* or *Brightness* of your monitor have been set too high or too low. Also check the VGA Signal Cable Connector.

The Image is not centred

The vertical and horizontal position of the image can be controlled with the control buttons on the front end of your monitor.

The image is distorted

The settings for Pincushion and Trapezoid may be wrong. Adjust these using the control buttons on the front end of your monitor.

I use a Non-PC type computer

If a non-PC type personal computer or graphics adapter is being used, make sure the pin assignments of its signal input connector and the signal timing meets the specifications indicated in the Timing Charts section.

Self Test

Whenever there seems to be a problem with the monitor's performance, you can let the monitor perform a self test. This feature will help diagnose if the problem comes from the monitor or the computer. To do so, please do the following:

- Switch off the computer and the monitor.

- Disconnect the VGA signal cable from the computer.

Packard Bell A727 17" Monitor

Wait for at least 10 seconds before switching the monitor on again.

After a few seconds, a pattern of three coloured bars (red, green and blue) should appear on the screen. If these bars appear correctly, then your monitor is functioning well. You can correct the image by adjusting the monitors brightness and contrast. Please click [here](#) if you want to know how to do this.

Switch off the monitor and make sure that the computer is still off, before reconnecting the VGA signal cable to the computer. Wait for at least 10 seconds and switch on the monitor, followed by the computer.

If the test pattern did not appear during this procedure and the monitor screen is still blank, then the problem is most likely caused by the monitor. Please turn off the power to your computer and the monitor, and unplug the monitor.

PACKARD BELL A727 MONITOR FEATURES

Performance

The A727 17" monitor features maximum resolutions of 1280 pixels (horizontal) and 1024 lines (vertical) in non-interlaced or interlaced modes. The monitor automatically adapts to the vertical and horizontal frequencies of VGA, SVGA, 8514/A and compatible graphics adapters.

Plug & Play compatibility

The monitor's design allows you to use it with a variety of graphics adapters and supports DDC1/2B plug and play. When using Windows with a Packard Bell DDC1/2B compatible computer, the DDC1/2B feature in the monitor provides a standard means of communication between the monitor and the computer. As a result, DDC1/2B prevents the user from making incorrect display settings to ensure that there is an appropriate display on the monitor.

Power management

When used with a Packard Bell computer that features a power management system, the PC will automatically reduce the monitor's power consumption when the computer has not been used for a period of time. This monitor has a three level power-saving feature indicated by the changing colour of the power LED on the front panel.

When the power saving feature is initiated, the LED will change from green to amber and the monitor's power consumption will be reduced from approximately 110 watts to less than 8 watts. There will be no image on the monitor when power management is working. To display the image again, move the mouse or press a key on the keyboard. It may take up to 3 seconds for the image to reappear. This power-saving feature exceeds the Environmental Protection Agency (EPA) Energy Star requirements for Display Power Management Signals.

Monitor Speakers

Attaching the *Diamond Audio Technology* speakers to the monitor itself provides an optional, attractive and convenient way to house your speakers. After attaching the Diamond Audio Technology speakers to the monitor, connect the plug-end of the audio input jack to the sound card connection on the rear side of the computer.

Tilt and swivel operations

Swivel movement has a range of 45° right or left of the centre position. Tilt movements are limited to angles of -5° forward and +15° backward. These ranges allow you to set the screen to the viewing position most comfortable for you.

PACKARD BELL A727 MONITOR SPECIFICATIONS

Specifications subject to change without notice. For a complete list of your system's specifications, see the appropriate Specifications section in each of the sections provided in the **Hardware Section of Packard Bell ActivDoc**.

Power source	AC 100-240 V, 50/60 Hz	
Power consumption	LED colour is green	Normal operation (110W)

Packard Bell A727 17" Monitor

	LED colour is amber	Stand by/ Suspend Mode (max.15W)
	LED colour is amber	Off (max. 8W)
Internal audio power	Amplifier 2 x 5W	
Picture tube	17" (diagonal), non-glare, anti-static, anti-reflection, 90° deflection, 0.27 mm-dot pitch	
Viewable image size	15.9" (diagonal)	
Maximum resolution	Horizontal	1280 pixels (Non-interlaced)
	Vertical	1024 lines (Non-interlaced)
Input signals	Video	R.G.B Analog, 15 pin D-sub
Synchronisation	Horizontal	30 ~ 70 kHz continuous
	Vertical	50 Hz ~ 120 Hz continuous
Display colours	Analogue input	Unlimited colours
Active display area	Horizontal	306 +/- 4 mm
	Vertical	230 +/- 4 mm
Plug & Play	DDC 2B/2AB	
Operating temperature	0°C~ +40°C	
Operating humidity	35% ~ 80% (non-condensing)	
Storage temperature	-20°C ~ +60°C	
Storage humidity	5% ~ 85%	
Dimensions	Width	404 mm
	Height	408 mm
	Depth	420 mm
Weight	13.7Kg unpacked, 16.7Kg packed	

Timing chart

Mode	Resolution	H-Freq.	V-Freq.	HS. pol	VS. pol
1	640 x 480	31.5 kHz	60 Hz	Negative (-)	Negative (-)
2	640 x 480	43.3 kHz	85 Hz	Negative (-)	Negative (-)
3	640 x 480	50 kHz	100 Hz	Positive (+)	Negative (-)
4	720 x 400	31.5 kHz	70 Hz	Positive (+)	Negative (-)
5	800 x 600	46.8 kHz	75 Hz	Positive (+)	Positive (+)
6	800 x 600	53.6 kHz	85 Hz	Positive (+)	Positive (+)
7	800 x 600	63.6 kHz	100 Hz	Positive (+)	Negative (-)
8	1024 x 768	60 kHz	75 Hz	Positive (+)	Positive (+)
9	1280 x 1024	63.9 kHz	60 Hz	Positive (+)	Positive (+)



Packard Bell.

Updates to software and hardware components of your computer are made regularly. Therefore some of the instructions, specifications and pictures in this documentation may be slightly different from your particular situation.

Packard Bell reserves the right to revise or make changes or improvements to this product or documentation at any time without obligation to notify any person of such revisions or improvements.

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