
FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Safety Certifications

UL, CUL, TÜV, NOM

EN 55022 Warning

This is a Class A product. In a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, meeting room or auditorium.

Declaration of Conformity

Manufacturer: InFocus

27700B SW Parkway Ave. Wilsonville, Oregon 97070 USA

European Office: Olympia 1, NL-1213 NS Hilversum, The Netherlands

We declare under our sole responsibility that the LP425z Projector conform to the following directives and norms:

Directive 89/336/EEC, Amended by 93/68/EEC

EMI: EN 55022 (1992) Class A

EMC: EN 50082-1 (1992)

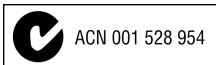
IEC 801-2, IEC 801-3, IEC 801-4

Directive 73/23/EEC, Amended by 93/68/EEC

Safety: EN 60950: 1992 + A1 + A2 + A3: 1995

February, 1999

Australian Certification C-tick mark



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SAFETY INSTRUCTIONS

Please read and follow all safety instructions provided BEFORE using your new projector. Failure to comply with safety instructions may result in fire, electrical shock, or personal injury and may damage or impair protection provided by equipment. Please save all safety instructions.

Safety Definitions:

- **Warning:** Statements identify conditions or practices that could result in permanent personal injury.
- **Caution:** Statements identify conditions or practices that could result in damage to your equipment.

Safety Symbols:



Attention: For information about usage of a feature, please refer to the User's Guide.



Warning: Hot surface. Do not touch.



An arrow pointing to the lamp door on the projector.

Safety Terms:

- **Warning:** Don't look directly into the lens when the projector is turned on.
- **Warning:** Don't block ventilation openings.
 - **Warning:** To replace the lamp, turn the power off and unplug the power cord. To avoid burns, wait 30 minutes before opening the lamp door. Follow all instructions provided in this User's Guide.
 - **Warning:** Please use the power cord provided. Connect the power cord to a receptacle with a protective safety (earth) ground terminal.
- **Warning:** Refer all service to qualified service personnel. Servicing your own projector will void the warranty. See the following page for the customer service contact information.

- **Caution:** Don't set liquids on the projector. Spilled liquids may damage your projector.
- **Caution:** Don't place the projector on a hot surface or in direct sunlight.
- **Caution:** Do not drop the projector. Transport the projector in an InFocus-approved case; see page 38 for a list of cases.
- **Caution:** For ceiling mount installations, please use the ceiling mount recommended in this User's Guide on page 38 and follow all instructions provided with it.

Customer Service

If you need assistance, call InFocus Customer Service directly at **1-800-799-9911**. Support is free between 6 a.m. and 6 p.m. PST, Monday through Friday. Support is available in North America after hours and weekends for a fee at **1-888-592-6800**.

Or, send us an e-mail at techsupport@infocus.com

In Europe, call InFocus in The Netherlands at **(31) 35-6474010** between 8 a.m. and 6 p.m. Central European Time.

In Asia, call **(65) 332-0659** between 9:30 a.m. and 5:30 p.m.

INTRODUCTION

The InFocus® LP™425z lightweight multimedia projector is specifically designed for the mobile presenter. It generates crisp, clear SVGA 800x600 images using Digital Light Processing™ (DLP) technology. The projector is easy to connect, easy to use, and easy to maintain. The soft carry case makes it easy to transport the 7.4 pound projector.

Image Resolution

The SVGA resolution of the 425z's projected image is 800x600. Screen resolutions between 800x600 and 1024x768 are compressed to 800x600. The 425z cannot compress screen resolutions above 1024x768. If your computer's screen resolution is higher than 1024x768, reset it to a lower resolution before you connect the projector.

Compatibility

The projector is compatible with a wide variety of computers and video devices, including:

- IBM-compatible computers, including laptops, up to 1024x768 resolution at 75 Hz
- Apple Macintosh and PowerBook computers up to 1024x768 resolution at 75 Hz.
- Most standard VCRs, DVD players, HDTV sources, camcorders and laser disc players.

Unpacking the Projector

The projector comes with the items shown in Figure 1. Check to make sure all are included. **Contact your InFocus dealer immediately if anything is missing.**

If you are experienced in setting up presentation systems, use the *Quick Start* card that was included in the shipping box. For complete details on connecting and operating the projector, refer to this User's Guide. User's Guides are also available for download from our website at www.infocus.com.



NOTE: The 425z automatically expands 640x480 images to 800x600. You can display these images at 640x480 by turning off the Auto Resize feature. See "Resize" on page 21.



NOTE: The projector is compatible with 1080i HDTV format.

A registration card is included in the box. Register to receive product updates, announcements, and special offers from InFocus. Or, register online at www.infocus.com/service/register and you will be automatically entered to win free merchandise.



NOTE: The contents of your shipping box may vary depending on the projector configuration you've ordered.

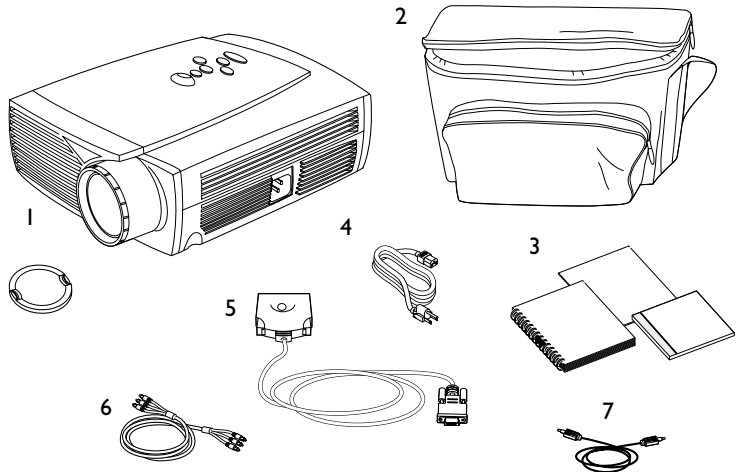


FIGURE I
Shipping box contents



NOTE: Various optional accessories, including remote controls, cases, and cables, are available. See "Optional Accessories" on page 37 for details.

- | | |
|--|------------------------------------|
| 1. LP425z projector and lens cap | 5. CableWizard Lite computer cable |
| 2. Soft carry case | 6. RCA audio/video (A/V) cable |
| 3. LP425z User's Guide, quick start card, and Online User Guide CD | 7. Audio cable |
| 4. Power cord | |

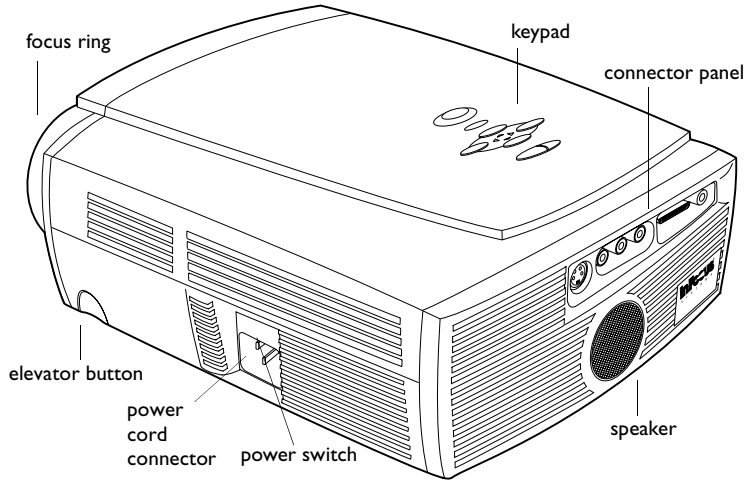


FIGURE 2

Side view of projector

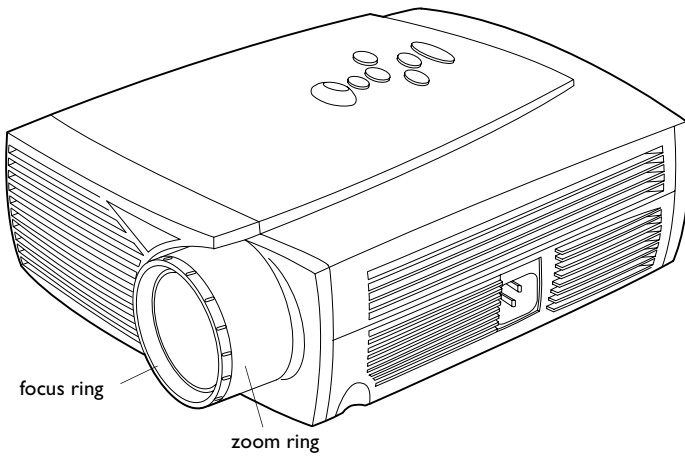


FIGURE 3

Front view of projector

Usage Guidelines

- Do not look directly into the projection lens when the projector is turned on. The bright light may harm your eyes.
- Do not block the grills on the projector. Restricting the air flow can cause it to overheat and turn off. If this happens, you must wait a minute before attempting to turn it back on.
- Handle the projector as you would any product with glass components. Be especially careful not to drop it.
- Avoid leaving the projector in direct sunlight or extreme cold for extended periods of time. If this happens, allow it to reach room temperature before use.
- This projector is not intended for use in mainframe computer rooms as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.
- Transport the projector in a vendor-approved hard or soft case. Part numbers for these cases are listed on page 37.

If You Need Assistance

The first place to look for help is in this manual. Be sure to check the guidelines in “Troubleshooting” on page 31. Or, check the Service and Support section of our website at <http://www.infocus.com/service>.

If those sources don't answer your question, call your InFocus dealer. You can also call InFocus Customer Service directly at **1-800-799-9911**. Call between 6 a.m. and 6 p.m. PST, Monday through Friday. Service is available in North America after hours and on weekends for a fee at **1-888-592-6800**.

In Europe, call InFocus in The Netherlands at **(31) 35-6474010** between 8 a.m. and 6 p.m. Central European Time. In Asia, call **(65) 332-0659** between 9:30 a.m. and 5:30 p.m.

Or, send us an e-mail at techsupport@infocus.com. Our World Wide Web address is <http://www.infocus.com>.

Warranty

This product is backed by a limited two-year warranty. The details of the warranty are printed at the back of this manual. A longer term warranty can be purchased from your InFocus dealer. Refer to page 38 for the part number.

SETTING UP THE PROJECTOR

- 1 Place the projector on a flat surface.
 - The projector must be within 10 feet (3 m) of your power source and within 8 feet (2.4 m) of your computer.
 - If you want to project from behind a translucent screen, set up the projector behind your screen. See “Rear Projection” on page 24 to reverse the image.
 - If you are installing the projector on the ceiling, refer to the *Ceiling Mount Installation Guide* that comes with the Ceiling Mount Kit for more information. To turn the image upside down, see “Ceiling Projection” on page 23. The Ceiling Mount Kit is sold separately; see page 38.
- 2 Position the projector the desired distance from the screen.
 - The distance from the lens of the projector to the screen and the zoom setting determine the size of the projected image. Figure 4 shows three projected image sizes. For information about image sizes at minimum and maximum zoom settings, see “Projected Image Size” on page 45.
- 3 Make sure the projector and your computer are turned off.

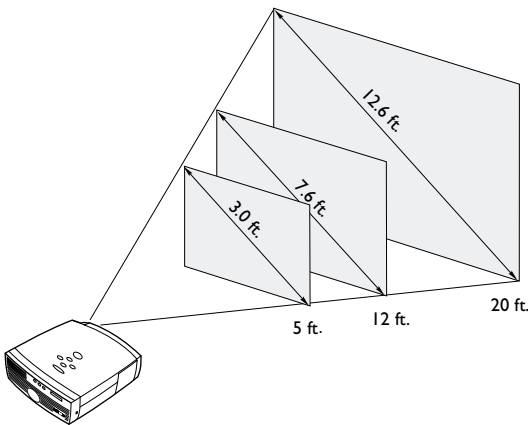


FIGURE 4

Projected image size at minimum focusing distance



CAUTION: Turn off the computer, monitor and projector whenever you connect or disconnect cables.

Preparing to Connect Your Equipment to the Projector

Now you're ready to connect your equipment.

Steps for connecting the different types of equipment are given on the pages listed below.

Equipment you want to connect	Page
Computer	page 7
Video player	page 8



NOTE: In some older computers, the monitor connector does not have a hole for Pin 9. If you have trouble connecting the CableWizard Lite cable to your computer, contact InFocus Technical Support.

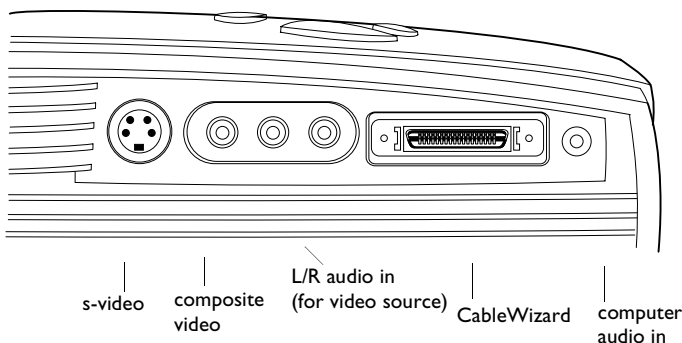





FIGURE 5

Connector panel



NOTE: If you want to control your computer's mouse from the projector, purchase the optional remote control and receiver or the remote and CableWizard.

Connecting a Computer

- 1 Plug the  end of the CableWizard Lite cable into the video connector on your laptop.
- 2 Plug the  end of the CableWizard Lite cable into the  connector on the projector's connector panel

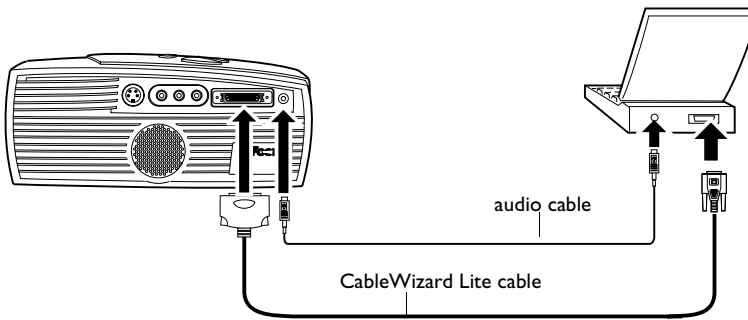



FIGURE 6

Connecting the CableWizard Lite to a computer

Do you want to play your computer's audio on the projector?

- 1 Plug either end of the audio cable into the audio connector on your computer.
- 2 Plug the other end of the audio cable into the  connector on the projector.

Now you're ready to power up the projector and your computer. Skip to "Powering up the Projector and Adjusting the Image" on page 10.



NOTE: Many laptop computers do not automatically turn on their external video port when a secondary display device such as a projector is connected. Refer to your computer manual for the command that activates the external video port. Activation commands for some laptop computers are listed in the Appendix.



NOTE: If you are connecting an older Macintosh computer that does not have a 15-pin connector, you must use a Mac adaptor between the computer and the CableWizard Lite. See "Optional Accessories" on page 37.



NOTE: If you are connecting a desktop computer and want to view your presentation on your monitor, purchase the optional CableWizard.



NOTE: HDTV sources are connected to the projector using the CableWizard Lite cable. See the previous page for details.

Connecting a Video Player

- 1 If your video player uses a round, one-prong composite video connector, you'll need only the A/V cable that shipped with the projector.
 - If your video player uses a round, four-prong S-video connector, you'll need an S-video cable in addition to the A/V cable. The S-video cable is sold separately. (See "Optional Accessories" on page 37.)
- 2 Plug the A/V cable's yellow connector into the "video-out" port on your video player (Figure 7). This port may be labeled "To Monitor."
 - If you're using an S-video cable, connect it to the "s-video out" connector on the video player (Figure 8).
- 3 Plug the other yellow connector into the composite connector on the back of the projector.
 - If you're using S-video, plug the other end of the cable into the "s-video" connector on the projector (Figure 8).

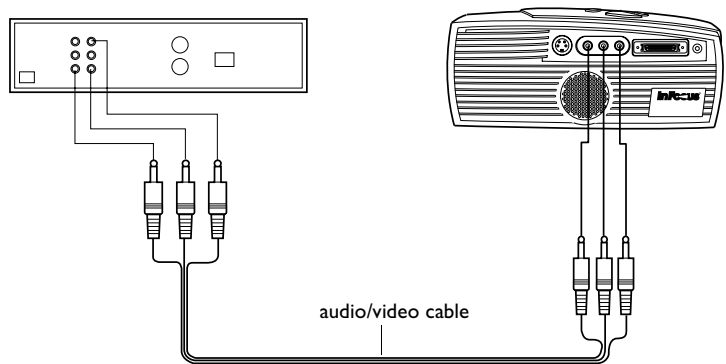


FIGURE 7

Connecting the projector to a video player using the standard A/V cable (with composite video connector)

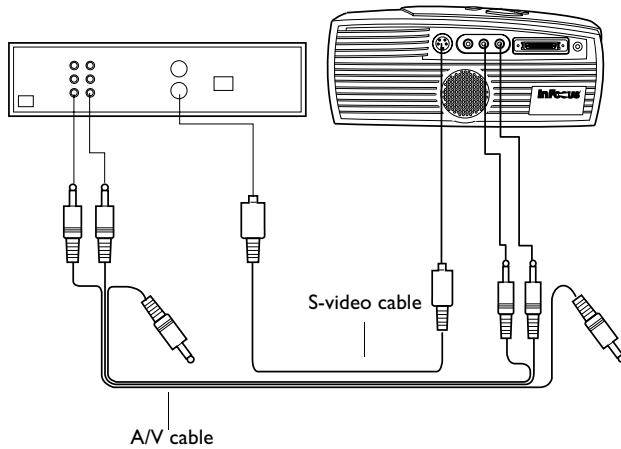


FIGURE 8

Connecting the projector to a video player using an S-video cable and the audio connectors on the standard A/V cable

- 4 Plug the A/V cable's white connector into the left "audio out" port on your video player. Plug the cable's red connector into the right "audio out" port on the video player (Figure 7 and Figure 8).
 - If you're using an S-video cable, the yellow connectors on the A/V cable remain unused (Figure 8).
- 5 Plug the A/V cable's other white and red connectors to the left and right "audio in" ports on the projector.

The projector is compatible with these major broadcast video standards: NTSC, NTSC 4.43, PAL, PAL-M, PAL-N, and SECAM. It automatically adjusts to optimize its performance for the incoming video. The input signals for SECAM, PAL-M, and PAL-N video are similar to other video signals and cannot be automatically detected, therefore they must be chosen manually. See "Video Standard" on page 23 for details.



CAUTION: Your video player may also have a "Video Out" port for a coaxial cable connection. **DO NOT** use this to connect to the projector.



NOTE: Always use the power cord that shipped with the projector.

Powering up the Projector and Adjusting the Image

- 1 Remove the lens cap.
- 2 Plug the power cord into the side of the projector, then plug it into your electrical outlet. A surge-protected power strip is recommended.
- 3 Turn on the projector by pressing the “I” side of the power switch (see Figure 2 on page 3).
 - The InFocus startup screen displays and the Power LED on top of the projector lights up (Figure 11 on page 15).
- 4 If you connected a video player, turn it on.
 - The video image should display on the projection screen. If a computer source is active, press the **source** button on the keypad (page 15) to display your video image. You can select a default source to determine which source the projector examines first during power-up for active video; see “Default Source” on page 24.
 - Use the **volume** buttons to adjust the volume.
- 5 Turn on your computer.
 - The computer image should display on the projection screen. (If a video source is active, press the **source** button on the keypad (page 15) to display your computer’s image.)
 - If necessary, make adjustments to the image from the projector’s on-screen menus. To open the menus, press the **menu** button on the keypad, then select the Display or Image sub-menu. For more information about the menus, see page 17.



NOTE: With some computers, the order in which you power up the equipment is very important. Most computers should be turned on last, after all other peripherals have been turned on. Refer to your computer’s documentation to determine the correct order.

Turning Off the Projector

If you want to turn off the projector for a short period of time, press the **standby** button on the keypad. This blanks the screen for fifteen minutes, but keeps the projector running. (You can change the amount of time the projector stays in standby mode; see “Standby Time” on page 23 for details.) After 15 minutes, the lamp goes out (the projector keeps running). To exit standby mode, press the **standby** button again. (It may take several seconds for the projection lamp to reach full power and project the image again.)

To completely power off the projector, press the “O” side of the power switch on the side of the projector. If you want to turn the projector back on immediately, you must allow about a minute for the lamp to cool. The lamp won’t light if it’s too hot.



CAUTION: *When you disconnect the projector after you have switched it off, always remove the power cord from the electrical outlet first, then remove it from the projector.*

USING THE PROJECTOR

This section describes how to use and make adjustments to the projector. It also provides a reference to the keypad buttons and the options available from the on-screen menus.

Basic Image Adjustment

- 1 Make sure you have powered up your equipment in the right order (page 10).
- 2 If the image doesn't display completely, zoom the image (page 14), adjust the height of the projector (page 14) or center the image by adjusting its horizontal or vertical position (page 22). Be sure the projector is at a 90 degree angle to the screen.
- 3 If the image is out of focus, rotate the focus lens (page 14).
- 4 If the image appears to shimmer or if it has blurry vertical bars after you have adjusted the focus, turn Auto Image (page 21) off and then back on to reset the automatic sync and tracking. If that doesn't clear up the image, turn Auto Image off and adjust the sync (page 21) and/or the tracking (page 22) manually.
- 5 If the colors don't look right, adjust the brightness (page 18).

Adjusting the Projector

To focus the image, rotate the focus ring (Figure 9) until the image is clear. To zoom the image, rotate the zoom ring. This adjusts the image size without affecting focus.

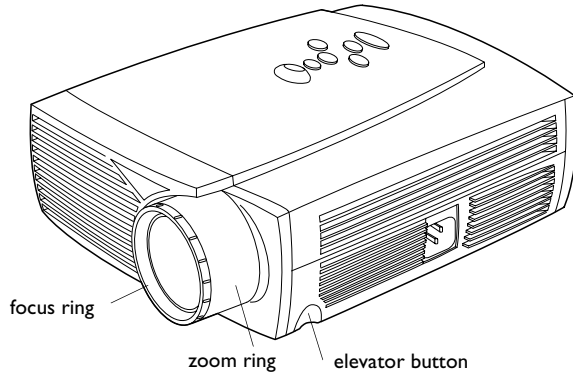


FIGURE 9

Focus ring, zoom ring, and elevator button

The projector is equipped with a self-locking, quick-release elevator foot and button (Figure 9).

To raise the projector:

- 1 Press and hold the elevator button (Figure 10).
- 2 Raise the projector to the height you want, then release the button to lock the elevator foot into position.

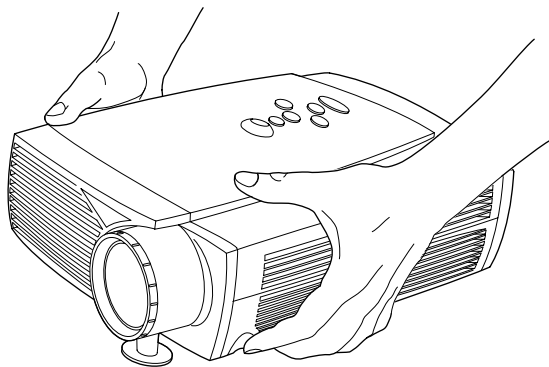


FIGURE 10

Adjusting the height of the projector

Using the Keypad Buttons

The keypad is lit orange when the projector is on and lit green while the menus are displayed. While the menus are displayed, the volume, source, and standby buttons act as navigation buttons. See “Using the On-Screen Menus” on page 17 for details.

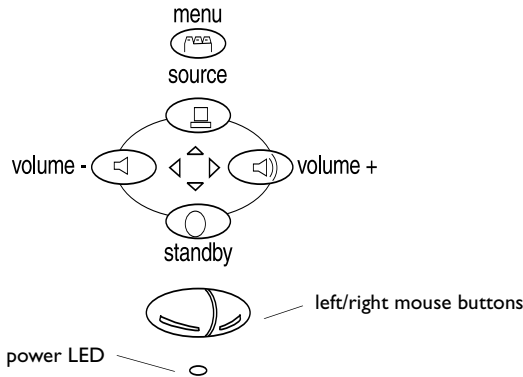


FIGURE 11

Keypad

Menu

Press **menu** to open the on-screen menus (the keypad lights green). Press **menu** again to close the menus. When you close the menus, the projector saves any changes you made. For more information about the on-screen menus, see page 17.

Mouse buttons

Use the left and right mouse buttons to make selections and adjustments in the menus. See “Using the On-Screen Menus” on page 17 for details.

Source



When you have more than one source (computer and video) connected to the projector, select between them by pressing the source button on the keypad.

Standby

When you press **standby**, the display and audio turn off and a blank screen is displayed for 15 minutes. You can change the amount of time the projector stays in standby mode; see “Standby Time” on page 23 for details.

- If you press **standby** again within 15 minutes, the projector returns to normal operations immediately.
- If you press **standby** again after 15 minutes, there is about a 30 second delay before the lamp turns back on.
- If you don't press **standby** again, the lamp turns off after 15 minutes.

Volume

- To increase the volume, press 
- To decrease the volume, press 

Volume adjustments are saved for each source you have connected.

Using the On-Screen Menus

The projector has six drop-down menus that allow you to make image adjustments and change a variety of settings. Most of these adjustments aren't available directly from the keypad.

To open the on-screen menus, press the **menu** button on the keypad. This changes the volume, source, and standby buttons on the keypad to menu navigation buttons (and illuminates the keypad green). Press the corresponding buttons to move the cursor up, down, left, or right. To select a menu, move the cursor left and right to highlight the menu you want. The drop-down menu appears.

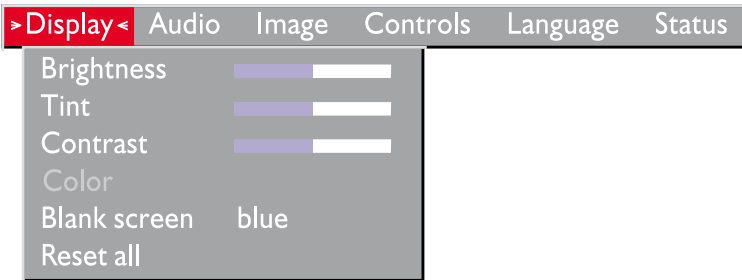


FIGURE 12

Drop-down menu

To change a menu setting, use the up and down arrow keys on the keypad to move the cursor up and down to the item you want to change (the selected item is highlighted red), then use the left and right mouse buttons (not the left and right arrow buttons) to adjust a setting. Some submenus, such as Brightness, consist of a slider bar you use to increase or decrease a value; some submenus, such as Standby Time, consist of options you scroll through to select the desired one. All changes are saved when you close the menus.

To access another menu, use the left and right arrow buttons to move left or right to another menu.



NOTE: Some menu items may be grayed out at certain times. This indicates the item is not applicable to your setup (for example, video standards do not apply to computer sources) or the item is not enabled until another selection is made (for example, Manual Tracking is not available until Auto Image is turned off).

Display Menu



FIGURE 13

Display menu

Brightness

Adjusting the brightness changes the intensity of the image.

- Press the left mouse button to darken the image.
- Press the right mouse button to lighten the image.

Tint

The tint adjusts the red-green color balance in the projected image. Changing the Tint setting has no effect on PAL or SECAM video sources.

- Press the left mouse button to increase the amount of green in the image.
- Press the right mouse button to increase the amount of red in the image.

Contrast

The contrast controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

- Press the left mouse button to decrease the contrast.
- Press the right mouse button to increase the contrast, making the blacks appear blacker and the whites appear whiter.

Color

The color setting adjusts a video image from black and white to fully saturated color.

- Press the left mouse button to decrease the amount of color in the image.
- Press the right mouse button to increase the amount of color in the image.

Blank Screen

Blank Screen determines what color is displayed when there is no active source and when the projector is in standby. Click either mouse button to toggle between blue and black.

Reset All

Click either mouse button to reset all the options (except Language, Video Standard, Ceiling and Rear Projection, and Standby Time) in all the menus to their original settings. This also returns Freeze and Mute to their default (off) settings.

Audio Menu

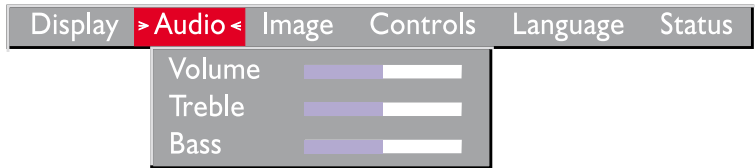


FIGURE 14

Audio menu



NOTE: *Changing the volume from the menu is the same as changing it using the keypad.*

Volume

- Press the left mouse button to decrease the volume.
 - Press the right mouse button to increase the volume.
- Volume adjustments you make are saved for each source.

Treble

The treble setting controls the high frequencies of your audio source.

- Press the left mouse button to decrease the treble.
- Press the right mouse button to increase the treble.

Treble adjustments are saved for each source you have connected.

Bass

The bass setting controls the low frequencies of your audio source.

- Press the left mouse button to decrease the bass.
- Press the right mouse button to increase the bass.

Bass adjustments are saved for each source you have connected.

Image Menu

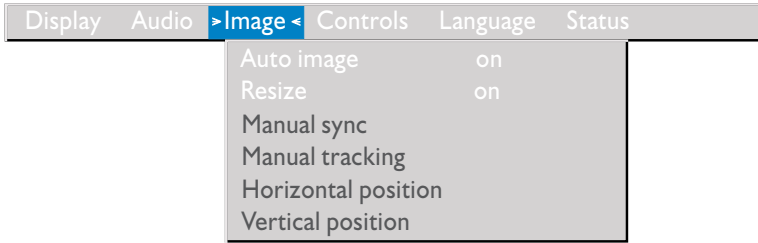


FIGURE 15

Image menu

Auto Image

The projector automatically adjusts tracking, signal synchronization and vertical and horizontal position for most computers (Auto Image does not apply to video sources). If you want to adjust these features manually, you must turn off **Auto Image** first by highlighting Auto Image in the Image menu and clicking either mouse button to select “off”.

Resize

Resize automatically resizes the image by scaling it up or down. It only affects computer images that are not the projector’s native resolution.

When **Resize** is on, the projector makes the best fit of the image to the screen. If you turn **Resize** off (by highlighting it in the Image menu and clicking either mouse button to select “off”), the image may be either cropped or too small for the screen.

Manual Sync

The projector adjusts signal synchronization automatically for most computers. But if the projected computer image looks fuzzy or streaked, try turning **Auto Image** off then back on again. If the image still looks bad, try adjusting the signal synchronization manually:

- 1 Turn Auto Image off.
- 2 Highlight Manual sync, then press either mouse button repeatedly until the image is sharp and free of streaks.



NOTE: Some screen savers interfere with the operation of Auto Image. If you’re experiencing problems, try turning your screen saver off, then turning Auto Image off and back on.



NOTE: When you connect an HDTV source, the projector automatically displays the image in 16x9 format.



NOTE: *The **Manual Sync, Manual Tracking, Horiz. Position** and **Vert. Position** options are available only for computer sources. The projector sets these options automatically for a video source.*

Manual Tracking

The projector adjusts tracking automatically to match the video signal from your computer. However, if the display shows evenly spaced, fuzzy, vertical lines or if the projected image is too wide or too narrow for the screen, try turning **Auto Image** off then back on again. If the image is still bad, try adjusting the tracking manually:

- 1 Turn Auto Image off.
- 2 Highlight Manual tracking, then press either mouse button repeatedly until the fuzzy vertical bars are gone.

Positioning adjustments are saved when you power off the projector.

Horizontal position

Follow these steps to manually adjust the horizontal position:

- 1 Turn Auto Image off.
- 2 Highlight Horizontal position, then press the left mouse button to move the image right or press the right mouse button to move the image left.

Positioning adjustments are saved when you power off the projector.

Vertical position

Follow these steps to manually adjust the vertical position.

- 1 Turn Auto Image off.
- 2 Highlight Vertical position, then press the left mouse button to move the image down or press the right mouse button to move the image up.

Positioning adjustments are saved when you power off the projector.

Controls Menu

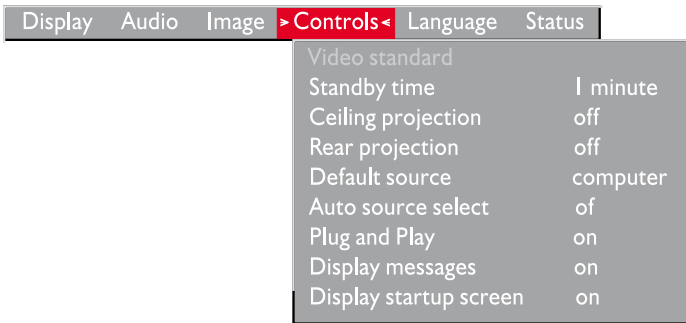


FIGURE 16

Controls menu

Video Standard

When Video standard is set to Auto, the projector attempts to pick the video standard (NTSC, NTSC 4.43, PAL, PAL-M, PAL-N, or SECAM) automatically based on the input signal it receives. (The video standard options may vary depending on your region of the world.) The input signals for SECAM, PAL-M, and PAL-N video cannot be automatically detected, therefore they must be chosen manually. If the projector is unable to detect the correct standard, the colors might not look right or the image might appear “torn.” If this happens, manually select a standard by clicking either mouse button and cycling through the standards.

Standby Time

This option lets you select how long the lamp stays on and the blank screen is displayed when the projector enters standby mode before the projector turns off. Select among 1, 5, 10, and 15 minutes and 1 and 2 hours by clicking either mouse button and cycling through the options.

Ceiling Projection

When you turn **Ceiling Projection** on, the projector turns the image upside down for ceiling-mounted projection. Highlight Ceiling Projection, then click either mouse button to turn this feature on and off.



NOTE: If you already know the video standard used in your geographical area, it's often best to manually select it.



NOTE: To order the LP425 Ceiling Mount, refer to “Optional Accessories” on page 37.

Rear Projection

When you turn **Rear Projection** on, the projector reverses the image so you can project from behind a translucent screen. Highlight Rear Projection, then click either mouse button to turn this feature on and off.

Default Source

Default Source toggles between Computer and Video. This determines which source the projector checks first for active video during power-up. Highlight Default Source and click either mouse button to toggle between the options.

Auto Source Select

This setting toggles between On and Off. When this feature is Off, the projector defaults to the source selected in Default Source. To display another source, you must manually select one by pressing the **source** button on the keypad. When this feature is On, the projector automatically finds the active source, checking the default source first. Highlight Auto Source Select and click either mouse button to turn this feature on and off.

Plug and Play

This setting toggles between On and Off. When it is On, most new computers will automatically recognize the projector, then set the monitor resolution and refresh rate accordingly. You need to set the Plug and Play setting to Off for the projector to display properly on some older computers. The Plug and Play setting does not affect video images.

If the projector's display constantly changes between the computer image and the message, "Perfecting the image", you may need to set Plug and Play to Off.

Display Messages

This setting toggles between On and Off. When this feature is On, status messages such as "No signal detected" or "Standby Active" appear in the lower-right corner of the screen. Click either mouse button to turn this feature off and not see status messages.

Display Startup Screen

This setting toggles between On and Off. When this feature is On, the InFocus startup screen appears when the projector starts up and remains until an active source is detected. The startup screen contains information on contacting InFocus. Click either mouse button to turn this feature off and display a plain black or blue screen instead of the startup screen.

Language Menu

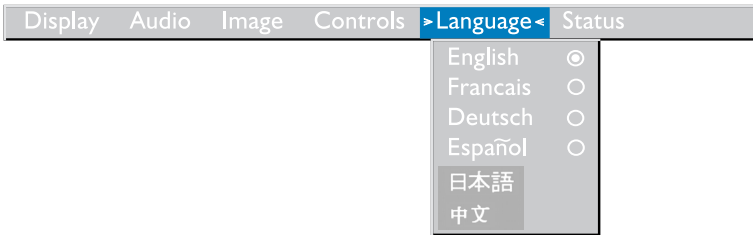


FIGURE 17

Language menu

You can display the on-screen menus in English, French, German, Spanish, Japanese, and Chinese.

- Move the cursor to the language you want, then click either mouse button. The menus redraw immediately.

Status Menu

This is a read-only window for informational purposes. To display the status window, select Show status from the menu, then click either mouse button. To remove the window, click either mouse button.

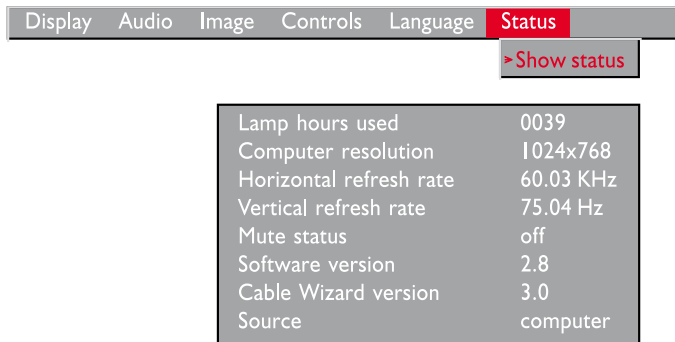


FIGURE 18

Status menu

Lamp hours used

Indicates how many hours the current lamp has been in use. The counter starts at zero hours and counts each hour the lamp is in use. Change the bulb when the brightness is no longer acceptable. See “Replacing the Projection Lamp” on page 27 for details.

Computer resolution

Shows your computer’s resolution setting. To change this, go to your computer’s Control Panel and adjust the resolution in the Display tab. See your computer’s user’s guide for details.

Horizontal refresh rate

The time period that one horizontal line is displayed.

Vertical refresh rate

The time period that one video frame is displayed.

Mute status

Indicates if the audio is muted.

Software version

Indicates the projector’s software version. This information is useful when contacting Technical Support.

CableWizard version

Indicates the CableWizard’s software version. This information is useful when contacting Technical Support.

Source

Indicates the active source, Computer or Video.

MAINTENANCE & TROUBLESHOOTING

This section describes how to:

- clean the lens
- replace the projection lamp
- use the security lock feature
- troubleshoot the projector

Cleaning the Lens

Follow these steps to clean the projection lens:

- 1 Apply a non-abrasive camera lens cleaner to a soft, dry cloth.
 - Avoid using an excessive amount of cleaner.
 - Abrasive cleaners, solvents or other harsh chemicals might scratch the lens.
- 2 Lightly wipe the cleaning cloth over the lens.
- 3 If you don't intend to use the projector immediately, replace the lens cap.

Replacing the Projection Lamp

The lamp hour counter in the Status menu counts the number of hours the lamp has been in use. The projectors use a metal halide bulb. These types of bulbs deteriorate over time. Replace the lamp when the brightness is no longer acceptable. You can order new lamp modules from your InFocus dealer. See "Accessories" on page 37 for information.

Follow these steps to replace the projection lamp:

- 1 Turn off the projector and unplug the power cord.
- 2 Wait 30 minutes to allow it to cool thoroughly.
- 3 Place the projector on its side, then insert a small screwdriver or other flat object into the tabs on the lamp module door (Figure 19).
- 4 Pull the lamp door up and remove it.



.....
WARNING: To avoid burns, allow the projector to cool for at least 30 minutes before you open the lamp module door. Never extract the lamp module while the lamp is operating.

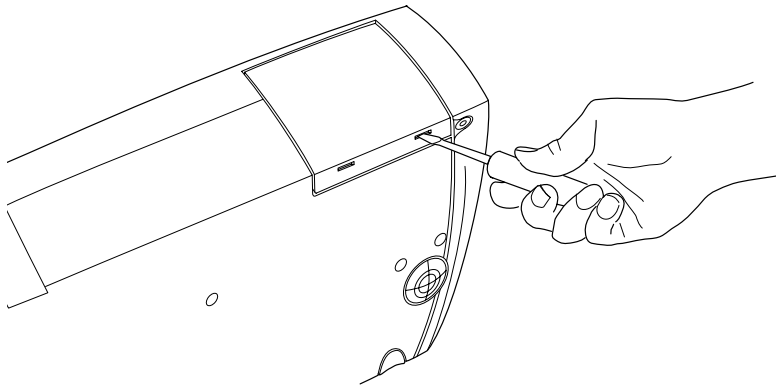


FIGURE 19

Removing the lamp door



CAUTION: Never operate the projector with the lamp door open or removed. This disrupts the air flow and causes the projector to overheat.

- 5 Loosen the two non-removable screws on the outside of the module.

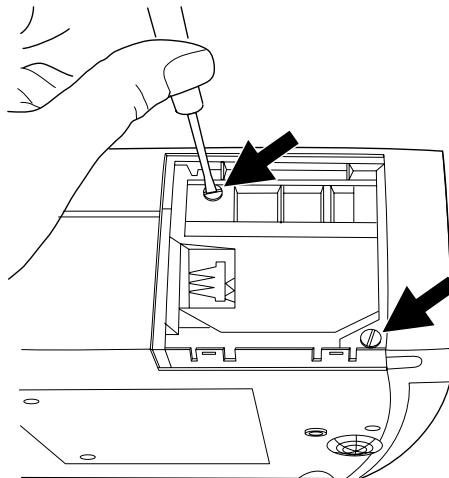


FIGURE 20

Loosening the screws on the lamp module

-
- 6 Slide the lamp connector to the right to disconnect it from the projector (Figure 21).

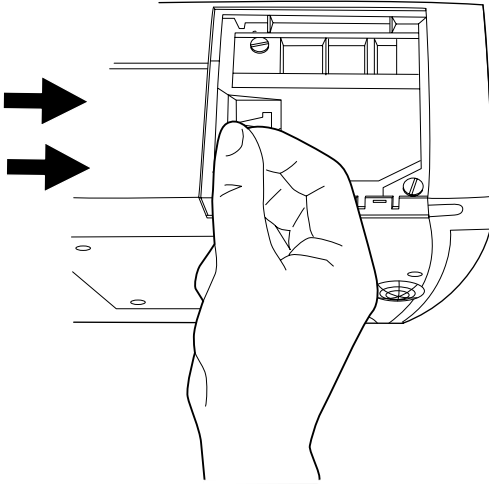


FIGURE 21

Sliding the lamp connector

- 7 Remove the module (Figure 22) and dispose of it in an environmentally proper manner.

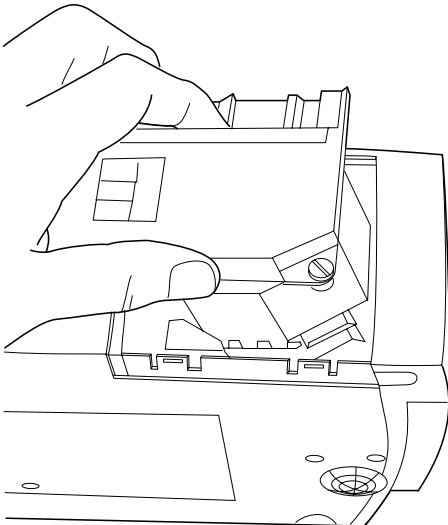


FIGURE 22

Removing the lamp module



.....
WARNING: Do not drop the lamp module or touch the glass bulb! The glass may shatter and cause injury.

- 8 Align the new lamp module in the correct direction.
- 9 Gently push the module in as far as it goes.
- 10 Tighten the screws on the outside of the module.
- 11 Slide the lamp connector to the left to re-attach it.
- 12 Insert the tabs at the top of the lamp door into the projector and press the lamp door into place.
- 13 Plug in the power cord and turn the projector back on.
- 14 To reset the lamp hour counter in the Status window, press and hold the left mouse button, then press the menu button (while still holding down the mouse button) for 5 seconds. Verify that the counter was reset by pressing the menu button and viewing the counter in the Status window.

Using the Security Lock

The projector has a security connector for use with a PC Guardian Cable Lock System (Figure 23). Refer to the information that came with the lock for instructions on how to use it to secure the projector.

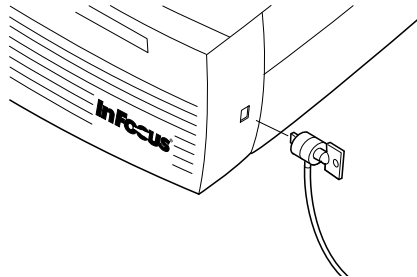


FIGURE 23

Installing the security lock

Troubleshooting

Problem: Nothing on projection screen

- Make sure that the power cord is properly connected to a fully functional AC electrical outlet. Make sure that the power cord is also properly connected to the projector.
- If the projector is plugged into a power strip, make sure the power strip is turned on.
- Make sure you have removed the lens cap on the projection lens at the front of the projector.
- Make sure the projector is switched on.
- Check the projector's lamp to ensure that it is securely connected in the lamp module. See "Replacing the Projection Lamp" on page 27.
- Make sure that the cables do not have any bent pins.

Problem: Color or text not being projected

- You might need to adjust the brightness up or down until the text is visible. Refer to "Brightness" on page 18 for more information.

Problem: The screen resolution is not right

- Make sure the computer's video card is set for a resolution of no greater than 1024x768.

Problem: Image isn't centered on the screen

- Reposition the image. Refer to "Horizontal position" on page 22 and "Vertical position" on page 22.
- Be sure the projector is at a 90 degree angle to the screen.

Problem: Only the start-up screen displays

- Verify that the cables are connected correctly. See page 7 through page 8 for connection procedures.
- Verify that the proper input source is connected. See "Source" on page 15.

- You might need to turn everything off and power up the equipment again in the proper order. Refer to your computer's documentation to determine the correct order.
- Make sure your laptop's external video port is turned on. See the "Portable and Laptop Activation Chart" on page 39 or your computer's manual for details.
- Make sure your computer's video board is installed and configured correctly.

If you're using Windows 3.x:

- 1 In the Windows Program Manager, double-click the Windows Setup icon in the Main program group.
- 2 Verify that the Display setting is 1024x768 or less.

If you're using Windows 95:

- 1 Open "My Computer" icon, the Control Panel folder and then the Display icon.
- 2 Click the Settings tab.
- 3 Verify that the Desktop area is set to 1024x768 or less.

Also check the following:

- Does your computer have a compatible video board? The projector isn't CGA or EGA compatible.
- Is your computer's video port activated? This is especially true for laptop computers. See "Portable and Laptop Activation Chart" on page 39.

Problem: Image is too wide or narrow for screen

- You might need to manually adjust the tracking to reduce or enlarge the projected image. Refer to "Manual Tracking" on page 22.
- Adjust the resolution of your video card if it's greater than 1024x768.

Problem: Image is out of focus

- Turn the projection lens to focus the image.
- Make sure the projection screen is at least 5 feet (1.5 m) from the projector.
- Check the projection lens to see if it needs cleaning.

Problem: Image and menus are reversed left to right

- Rear projection mode is probably turned on. Turn Rear Projection off in the Controls menu. The image should immediately return to forward projection. See “Rear Projection” on page 24.

Problem: the projector displays vertical lines, “bleeding” or spots

- Adjust the brightness. See “Brightness” on page 18.
- Check the projection lens to see if it needs cleaning.

Problem: no sound

- Adjust volume.
- Verify audio/input connections.
- Adjust audio source.

Problem: Image is “noisy” or streaked

Try these steps in this order.

- 1 Deactivate the screen saver on your computer.
 - 2 Turn **Auto Image** off and then back on again. See “Auto Image” on page 21.
 - 3 Adjust the synchronization and tracking manually to find an optimal setting. See “Manual Sync” on page 21 and “Manual Tracking” on page 22.
- The problem could be with your computer’s video card. If possible, connect a different computer.

Problem: Projected colors don't match the computer or video player's colors

- Just as there are differences in the displays of different monitors, there are often differences between the computer image and the projected image. Adjust the brightness, tint and/or contrast from the Display menu. See "Brightness" on page 18, "Tint" on page 18 and "Contrast" on page 18.

Problem: Lamp seems to be getting dimmer

- The lamp begins to lose brightness when it has been in use for a long time. Replace the lamp as described in "Replacing the Projection Lamp" on page 27.

Problem: Lamp shuts off

- A minor power surge may cause the lamp to shut off. Turn the projector off, wait at least a minute, then turn it back on.

The most current troubleshooting information can be found in the Service and Support section of our website at <http://www.infocus.com/service>.

Before calling your dealer or InFocus Technical Support for assistance, please have the following information available:

- the projector's serial number (located on the bottom label)
- the resolution of your computer.

Call InFocus Technical Support at **1-800-799-9911** between 6 a.m. and 6 p.m. PST, Monday through Friday. Service is available in North America after hours and on weekends for a fee at **1-888-592-6800**.

In Europe, call InFocus in The Netherlands at **(31) 35-6474010** between 8 a.m. and 6 p.m. Central European Time.

In Asia, call **(65) 332-0659** between 9:30 a.m. and 5:30 p.m.

Or, send us an e-mail at techsupport@infocus.com

APPENDIX

Specifications

The projector must be operated and stored within the temperature and humidity ranges specified.

Temperature

Operating 50 to 104° F (10 to 40° C)

Non-operating -4 to 158° F (-20 to 70° C)

Humidity

Operating and non-oper. 5% to 95% relative humidity, non-condensing

Dimensions

3.9 x 9 x 12.5 inches (9.9 x 22.9 x 31.8 cm)

Weight

7.4 lbs (3.4 kg) unpacked

Altitude

Operating 0 to 10,000 feet (3,048 meters)

Non-operating 0 to 40,000 feet (12,192 meters)

Optics

Focus Range 5.0 - 16 feet (1.5-5 m)

Lamp

Type 270-watt metal halide

Input Power Requirements

100-120VAC 6A; 50/60Hz

200-240VAC 3A; 50Hz

Video Audio Input

Input Impedance	5K ohm DC coupled
Maximum Input Voltage	$(L_{IN} + R_{IN})_{PEAK} < 4.5 \text{ V}$ for THD $\leq 0.3\%$ L_{IN} or $R_{IN} < 2.0 \text{ Vrms}$ for THD $\leq 0.3\%$
Sensitivity	100 mV at 1 KHz for 88 dB SPL at 1 meter
Connector Type	RCA jack

Computer Audio Input

Input Impedance	10K ohm nominal, AC coupled
Maximum Input Voltage	$(L_{IN} + R_{IN})_{PEAK} < 4.5 \text{ V}$ for THD $\leq 0.3\%$ L_{IN} or $R_{IN} < 2.0 \text{ Vrms}$ for THD $\leq 0.3\%$
Sensitivity	100 mV at 1 KHz for 88 dB SPL at 1 meter
Connector Type	3.5 mm (1/8 inch) stereo phone jack

Accessories

Standard Accessories (ship with the projector)

	Part Number
Quick Start card	009-0486-xx
LP425z User's Guide	010-0231-xx
Soft Case	110-0190-xx
Shipping Box	110-0186-xx
Audio cable	210-0118-xx
CableWizard Lite	SP-CW2LITE
Projection Lamp Module	SP-LAMP-LP4z
Lens Cap	340-0573-xx
Audio/Video Cable	210-0053-xx
Online User's Guide CD-ROM	010-0116-xx

Power Cords (one ships with projector, type depends on country)

North American Power Cord	210-0023-xx
Australian Power Cord	210-0027-xx
UK Power Cord	210-0028-xx
European Power Cord	210-0029-xx
Danish Power Cord	210-0030-xx
Swiss Power Cord	210-0031-xx

Optional Accessories

Personal Plus Accessory Pack, includes: Deluxe Soft Case (CA-C132) CableWizard 3 (SP-CW3) Executive Plus Remote (HW-EXPLUS)	SP-PP-LP4PLUS
Personal Pack Bundle, includes: 2-Button Executive Remote (HW-EXREM) IR Remote Receiver (HW-EXRCVR)	SP-PP-REMREC
Personal Pack Bundle, includes: CableWizard 3 (SP-CW3) 4-Button Executive Plus Remote (HW-EXPLUS)	SP-PP-CW3RMP



NOTE: Use only InFocus-approved accessories. Other products have not been tested with the projector.





NOTE: You can purchase these items by contacting your dealer or InFocus Catalog Sales at 1-800-660-0024.

Deluxe Soft Case	CA-CI32
ATA Travel Case	CA-CI34z
Executive Leather Case	CA-CI33
LP400 Series Deluxe Travel Case	CA-CI41
Macintosh Adaptor	SP-MACADPT
CableWizard Extension Cable, non-plenum rated, 60.7 ft (18.5 m)	SP-CW2EXT
CableWizard Extension Cable, plenum-rated, 60.7 ft (18.5m)	SP-CW2EXTP
CableWizard 2	SP-CW2
CableWizard 2 Installation Extension Cable, 70.5 ft (21.5 m) (CableWizard 2 only)	SP-CW2IEXT
GyroMouse RF Remote (US, Mexico, Canada, UK only)	HW-RF-GPRO
Remote Point RF Remote with LaserPointer (US, Mexico, Canada only)	HW-RF-REMLSR
2-Button Executive Remote	HW-EXREM
4-Button Executive Plus Remote	HW-EXPLUS
IR Remote Receiver	HW-EXRCVR
Full-Feature Laser Pro Remote Control	HW-LASERPRO
Remote Cable, 50 ft (15 m)	SP-WIREM
LP400 Series Ceiling Mount-LiteMount 425	SP-CEIL-LM425
LiteMount False Ceiling Plate	SP-LTMT-PLT
LiteMount Pipe Tubing Extension	SP-LTMT-EXT
CableWizard Wall Plate	SP-CWWALL
PC Guardian Projector Cable Lock	SP-LOCK
Tripod Mount	SP-TRIP-LP4
Portable Projector Stand	SP-STND
40" Portable Projection Screen	HW-PORTSCR40
50" Portable Projection Screen	HW-PORTSCR50
60" Portable Projection Screen	HW-DLXSCRN
S-Video Cable	515-0027-xx
3 rd Year Advantage Service Plan (1 year extension)	EW-LP4xx-12

Portable and Laptop Activation Chart

Many laptop computers do not automatically turn on their external video port when a secondary display device such as a projector is connected. Activation commands for some laptop computers are listed in the following table. (If your computer is not listed or the given command does not work, refer to the computer's documentation for the appropriate command.) On some laptops, the activation function key is labeled with an icon, for

example / or the text CRT/LCD.

Computer	Key command to activate port	Key command to de-activate port
Acer	Ctrl-Alt-Esc (for setup)	Ctrl-Alt-Esc (for setup)
AST* **	FN-D or Ctrl-D Ctrl-FN-D FN-F5 type from A:/VGA/CRT FN-F12	FN-D or Ctrl-D Ctrl-FN-D FN-F5 type from A:/VGA/CRT FN-F12
AMS	FN-F2	FN-F2
AMT	setup screen	setup screen
AT&T	FN-F3 FN-F6	FN-F3 FN-F6
Advanced Logic Research	Ctrl-Alt-V	Ctrl-Alt-V
Altima	Shift-Ctrl-Alt-C setup VGA/ Conf.Simulscan	Shift-Ctrl-Alt-L setup VGA/ Conf.Simulscan
Ambra**	FN-F12 FN-F5 F2/Choose Option/F5	FN-F12 FN-F5 F2/Choose Option/F5
Amrel* **	setup menu Shift-Ctrl-D	setup menu Shift-Ctrl-D
Apple	see Mac Portable and Mac PowerBook	
Aspen	automatic	automatic



NOTE: Visit our website at www.infocus.com for the most current activation chart. It is located in the Technical Library in the Service and Support section.



NOTE: Often, pressing the key commands once activates the external video port, pressing it again activates both the external and internal ports, and pressing it a third time activates the internal port. Refer to your computer's documentation for details on your specific model.

Computer	Key command to activate port	Key command to de-activate port
Austin	Ctrl-Alt-comma	Ctrl-Alt-comma
Award	FN-F6	FN-F6
BCC*	automatic	reboot computer
Bondwell	LCD or CRT options after bootup	reboot for LCD or CRT options to appear
Chaplet**	setup screen FN-F6 FN-F4	setup screen FN-F6 FN-F4
Chembook	FN-F6	FN-F6
Commax	Ctrl-Alt-#6	Ctrl-Alt-#5
Compaq* **	Ctrl-Alt-< FN-F4 automatic mode/? (for setup option)	Ctrl-Alt-> FN-F4 automatic mode/? (for setup option)
Compuadd* **	automatic Alt-F for screen setup option	automatic Alt-F for screen setup option
Data General	Ctrl-Alt-Command	Ctrl-Alt-Command
Data General Walkabout	2 CRT/X at DOS prompt	reboot
Datavue	Ctrl-Shift-M	Ctrl-Shift-M
DEC**	FN-F5 FN-F4	FN-F5 FN-F4
Dell**	Ctrl-Alt-< Ctrl-Alt-F10 FN-F8 (CRT/LCD) FN-D FN-F12	Ctrl-Alt-> Ctrl-Alt-F10 FN-F8 FN-D FN-F12
Digital*	automatic FN-F2	reboot FN-F2
Dolch	dip switch to CRT	dip switch to LCD
Epson	dip switch to CRT	dip switch to LCD

Computer	Key command to activate port	Key command to de-activate port
Everex*	setup screen option	setup screen option
For-A	Ctrl-Alt-Shift-C	Ctrl-Shift-Alt-L
Fujitsu	FN-F10	
Gateway	FN-F3 FN-F1/FN-F1 again simultaneous	FN-F3 FN-F1
Grid* **	FN-F2, choose auto or simultaneous Ctrl-Alt-Tab	FN-F2 Ctrl-Alt-Tab
Hitachi	FN-F7	FN-F7
Honeywell	FN-F10	FN-F10
Hyundai	setup screen option	setup screen option
IBM 970*	automatic	warm reboot
IBM ThinkPad**	reboot, enter setup menu FN-F7, select choice from setup menu FN-F1, select choice FN-F5, select choice PS/2 SC select choice (CRT, LCD, etc.)	FN-F2
Infotel	FN-F12	FN-F12
Kaypro	boot up, monitor plugged in	unplug monitor
Kris Tech	FN-F8	FN-F8
Leading Edge	FN-T	FN-T
Mac Portable 100	no video port: not compatible	
Mac PowerBook		
140, 145, 150, 170	no video port: requires a 3rd-party interface	
160, 165, 180, 520, 540, 5300	Control Panel folder; PowerBook Display folder; Activate Video Mirroring	warm reboot
210, 230, 250, 270, 280, 2300	requires Apple Docking Station or Mini Dock	

Computer	Key command to activate port	Key command to de-activate port
Magitronic	FN-F4	FN-F4
Mastersport	FN-F2	FN-F1
Micro Express*	automatic	warm reboot
Micron	FN-F2	FN-F2
Microslate*	automatic	warm reboot
Mitsubishi	SW2 On-Off-Off-Off	SW2 Off-On-On-On
NCR	setup screen option	setup screen option
NEC* **	setup screen option CRT at the DOS prompt FN-F3	setup screen option LCD at the DOS prompt FN-F3
Olivetti*	automatic FN-O/*	automatic FN-O/*
Packard Bell* **	FN-F0 Ctrl-Alt-<	FN-F0 Ctrl-Alt->
Panasonic	FN-F2	FN-F2
Prostar	Ctrl-Alt-S at bootup	Ctrl-Alt-S at bootup
Samsung*	setup screen option	setup screen option
Sanyo	setup screen option	setup screen option
Sharp	dip switch to CRT	dip switch to LCD
Sun SPARC-Dataview	Ctrl-Shift-M	Ctrl-Shift-M
Tandy**	Ctrl-Alt-Insert setup screen option	Ctrl-Alt-Insert setup screen option
Tangent	FN-F5	FN-F5
Texas Instruments*	setup screen option	setup screen option
Top-Link* **	setup screen option FN-F6	setup screen option FN-F6
Toshiba* **	Ctrl-Alt-End FN-End FN-F5 setup screen option	Ctrl-Alt-Home FN-Home FN-F5 setup screen option

Computer	Key command to activate port	Key command to de-activate port
Twinhead*	FN-F7	FN-F7
	FN-F5	FN-F5
	Automatic	Automatic
WinBook	Ctrl-Alt-F10	Ctrl-Alt-F10
Wyse	software driven	software driven
Zenith**	FN-F10	FN-F10
	FN-F2	FN-F2
	FN-F1	FN-F1
Zeos**	Ctrl-Shift-D	Ctrl-Shift-D
	FN-F1	FN-F1

* These manufacturers have models that automatically send video to the external CRT port when some type of display device is attached.

** These manufacturers offer more than one key command depending on the computer model.

Using Video Mirroring with a PowerBook Computer

When you turn video mirroring (called SimulScan in newer PowerBooks—see below) on, the projector displays the same information that appears on your PowerBook's built-in screen. When video mirroring is off, the projector acts like a separate display.

To turn on video mirroring for the first time:

- 1 Open the Monitors control panel; click on Monitor 2.
- 2 Set the number of colors you want.
- 3 Open the Control Strip; click on the monitor icon.
- 4 Select "Turn Video Mirroring On."

Now you can turn video mirroring on and off from the Control Strip without having to open the Monitors control panel again.

When using video mirroring and high color graphics such as slide shows, the projected image occasionally might turn black and white. If this happens, perform the following steps:

- 1 Turn off video mirroring.
- 2 Open the Monitors control panel.
- 3 Move the white menu bar to Monitor 2 to set the projector as the primary monitor.
- 4 Restart the PowerBook.

Using SimulScan

Some newer PowerBooks display images on an external monitor or projector differently than previous ones. When using SimulScan, the projector displays the same information that appears on your PowerBook

To select SimulScan:

- 1 Open the Control Panel, then double-click Monitors and Sound.
- 2 In the Resolution list, choose the SimulScan mode, then click OK.
- 3 If this changes your display settings, a dialog box appears. Click OK to confirm the change.

Projected Image Size

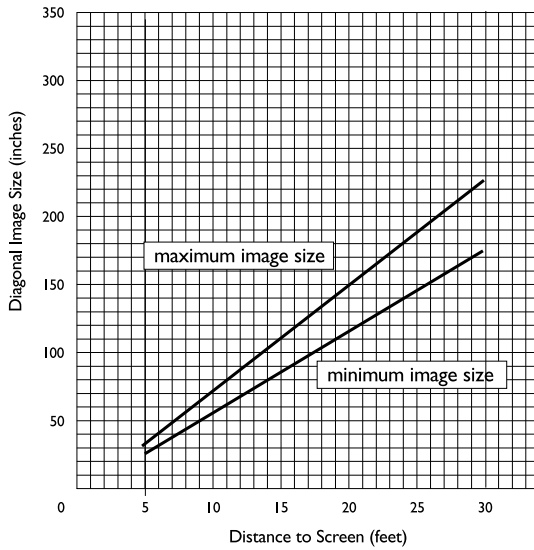


FIGURE 24

Projected image size

Table 1:
Image Size, Width and Height -maximum image size

Distance to Screen (feet)	Diagonal (feet)	Width (feet)	Height (feet)
4.9	3.0	2.4	1.8
8	5.0	4.0	3.0
12	7.6	6.1	4.6
16	10.1	8.1	6.1
20	12.6	10.1	7.6
30	18.9	15.1	11.3

Table 2:
Image Size, Width and Height -minimum image size

Distance to Screen (feet)	Diagonal (feet)	Width (feet)	Height (feet)
4.9	2.4	1.9	1.4
8	3.9	3.1	2.3
12	5.8	4.6	3.5
16	7.7	6.2	4.6
20	9.6	7.7	5.8
30	14.5	11.6	8.7



NOTE: Use these charts and tables to help you determine projected image sizes.



NOTE: Visit our website at www.infocus.com for an interactive image size calculator. It is located in the Technical Library in the Service and Support section.

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