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# **proxima**

# DP8400x/ **DP8500x**



010-0508-01

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In Asia: 238A Thomson Road #18-01/04 Novena Square Singapore 307684 Telephone: (65) 6334-9005 Fax: (65) 6333-4525



# \_**proxim**a **DP8400x/ DP8500x**

# **User's Guide**

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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

#### High-performance Installation—Innovative Ease of Use







#### **Declaration of Conformity**

Manufacturer: InFocus Corporation, 27700B SW Parkway Ave. Wilsonville, Oregon 97070 USA

European Office: Strawinskylaan 585, 1077 XX Amsterdam, The Netherlands We declare under our sole responsibility that this projector conform to the following directives and norms:

EMC Directive 89/336/EEC, Amended by 93/68/EEC EMC: EN 55022 EN 55024 EN 61000-3-2 EN 61000-3-3 Low Voltage Directive 73/23/EEC, Amended by 93/68/EEC Safety: EN 60950: 2000 October, 2003

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#### 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 at his own expense.

#### EN 50222 Warning

This is a Class A product. Jomestic environment i in which case the user main a conference room, meet a room or auditorium.

omestic environment it may cause radio interference, quired to take adequate measures. The typical use is

#### 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.

#### **Agency Approvals**

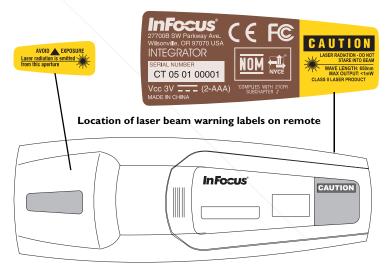
UL, CUL, NOM, IRAM, GOST, C-tick

Other specific Country Approvals may apply, see please product certification label.

#### **Remote Control Warning**

Laser radiation class II product; wavelength 650nm; maximum output 1mW. Remote control complies with applicable requirements of 21 CFR 1040.10 and 1040.11. Remote control complies with applicable requirements of EN 60 825-1: 1994 +A11.

#### Do not look into laser beam emitted from the front of the remote control



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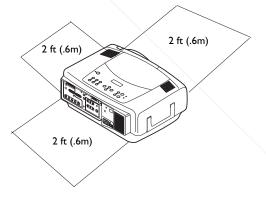
If you are experienced in setting up presentation systems, use the included *Quick Set Up* card. For complete details on connecting and operating the projector, refer to this User's Guide. Electronic versions of this User's Guide in multiple languages are available on the included CD and on our website.

The website also has technical specifications (an interactive image size calculator, laptop activation commands, connector pin outs, a glossary, the product data sheet), a web store to buy accessories, and a page for online registration. See the inside of the back cover for a list of all contact numbers and relevant web addresses.

#### Important Operating Considerations

Do not place the projector on a tablecloth or other soft covering that may block the vents. Vents are placed along the back, left and front sides of the projector. Do not use a non-approved ceiling mount. In the unlikely event of the lamp rupturing, discard any edible items placed in the surrounding area and thoroughly clean the area along the sides and in the front of the projector.

Do not place objects in the areas along the left, back and front sides of the projector



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# Introduction

Your new multimedia projector provides three computer, three video, and two audio inputs, one audio output, RS-232 control, and has XGA 1024x768 resolution. Optional user-changeable short, fixed short, long and super long throw lenses make this a flexible product suitable for many different uses. The projector is easy to connect, easy to use, and easy to maintain.

#### **Product specifications**

To read the latest specifications on your multimedia projector, be sure to visit our website. Web address information is located on the back inside cover of this User's Guide.

#### Accessories

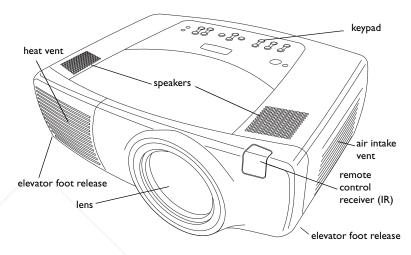
The standard accessories that came with your projector can be found on the packing list that came with your projector. Optional accessories are listed in the Accessories catalog that came with the projector and can also found on our website. See the inside back cover for the web address.

#### **Online Registration**

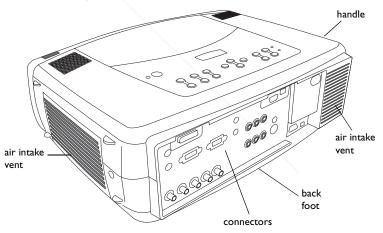
Register your projector on our website to receive product updates, announcements, and registration incentives. See the inside back cover for the web address.

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#### Projector components and features: front



#### **Projector components and features: back**



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#### **Connector Panel**

The projector provides three computer and three video connection options:

- one M1-D (DVI with USB)
- one VESA computer
- one BNC (RGBHV and Pr, Pb, Y)
- one component RCA video (Pr, Pb, Y)
- one S-video
- one composite RCA video

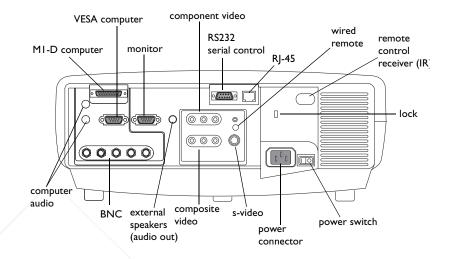
The projector provides computer and video connectors for audio support:

- two composite RCA stereo audio (L, R)
- one audio out
- two audio ins for computer

The projector also provides the following connectors:

- one wired remote
- one monitor out
- RS-232 serial connector (for serial control)
- RJ-45 connector (for networked control via ProjectorNet software)

The RS-232 Command Line Interface (CLI) specifications and commands are available on our website. See the back inside cover of this User's Guide for website information.

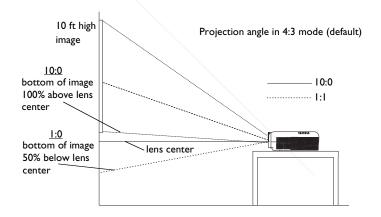




# **Positioning the projector**

To determine where to position the projector, consider the size and shape of your screen, the location of your power outlets, and the distance between the projector and the rest of your equipment. Here are some general guide-lines:

- Position the projector on a flat surface at a right angle to the screen. The projector (with the standard lens) must be at least 3 feet (0.9m) from the projection screen.
- Position the projector within 10 feet (3m) of your power source and within 6 feet (1.8m) of your video device (unless you purchase extension cables). To ensure adequate cable access, do not place the projector within 6 inches (.15m) of a wall or other object.
- If you are installing the projector on the ceiling, refer to the installation guide that comes with the Ceiling Mount Kit for more information. To turn the image upside down, see "Ceiling" on page 35. We recommends using an authorized ceiling mount. The Ceiling Mount Kit is sold separately; see the Accessories catalog that came with this projector or visit our website for more information.
- Position the projector the desired distance from the screen. The distance from the lens of the projector to the screen, the zoom setting, and the video format determine the size of the projected image. For information about image sizes at different distances, see "Projected image size" on page 43.
- For the standard lens that comes with the projector, the image exits at a given angle. However, the lens shift feature makes the image offset variable. The image offset is 100% at a 10:0 ratio when the projector is in 4:3 mode (default mode). This means that if you have an image 10' high, all 10' will appear above the center of the lens.
- This image offset is 50% when the lens shift is at a 1:1 ratio. This means that if you have an image 10' high, the bottom of the image will be 5' below the center of the lens.
- For information at the optional lenses image offsets, see "Projected image size" on page of the page



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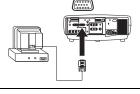
# **Connecting a computer**

#### connect computer cable (.....) **Required computer connections** 000 ( 00400 Connect one end of the VESA computer cable to the **Computer 2** connector on the projector. Connect the other end to the video port on your computer. If you are using a desktop computer, you first need to disconnect the monitor cable from the computer's video port. m Connect the black power cable to the connector on the back of the projector connect power cable and to your electrical outlet. **NOTE**: Always use the power cable that shipped with the projector. **Optional computer connections** connect MI-D cable To control your computer's mouse using the projector's remote control, con-nect the USB and DVI cables to the USB and DVI ports on your computer, •(#######)• and connect the other end to the Computer I (M1-D) connector on the projector. USB drivers must be installed to use the USB feature. For more information, see page 12. If your projector cannot receive the remote's signal due to IR interference, connect wired remote $\bigcirc$ you can connect directly to the projector via a remote cable. To do so, plug the remote cable into the wired remote connector on the projector. Plug the 6 <u>.</u> other end into the connector on the remote, O To have sound with your presentation, connect the audio cable to your comconnect audio cable puter and to the corresponding computer Audio In connector on the projector. . 🗆 FixYourDLP.com Sponsored by DM Discount-Merchant.com (800) 281-8860

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If you are using a desktop computer and want to see the image on your computer screen as well as on the projection screen, plug the monitor cable to the **Monitor out** connector on the projector.

connect monitor cable

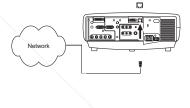


You can also connect to your computer using a BNC cable. Connect the BNC connectors on the BNC cable to the appropriate **Computer 3** connectors on connect BNC cables the projector. Connect the other end to the video port on your computer. If G В н v you are using a desktop computer, you first need to disconnect the monitor 0 cable from the computer's video port. When all 5 BNCs are connected, the projector handles separate synchs on H and V. You can control the projector from an LCD control panel, touch screen, or connect RS-232 cable other control device or computer by connecting an RS-232 cable to the projector's Serial connector. Specific RS-232 commands can be found in the Ser-0000 00000 vice and Support section of our website and in this User's Guide's Appendix.

The projector can be managed by ProjectorNet networking software through its **Network** (RJ-45) connector. Contact an authorized dealer or visit our website for information on ProjectorNet.

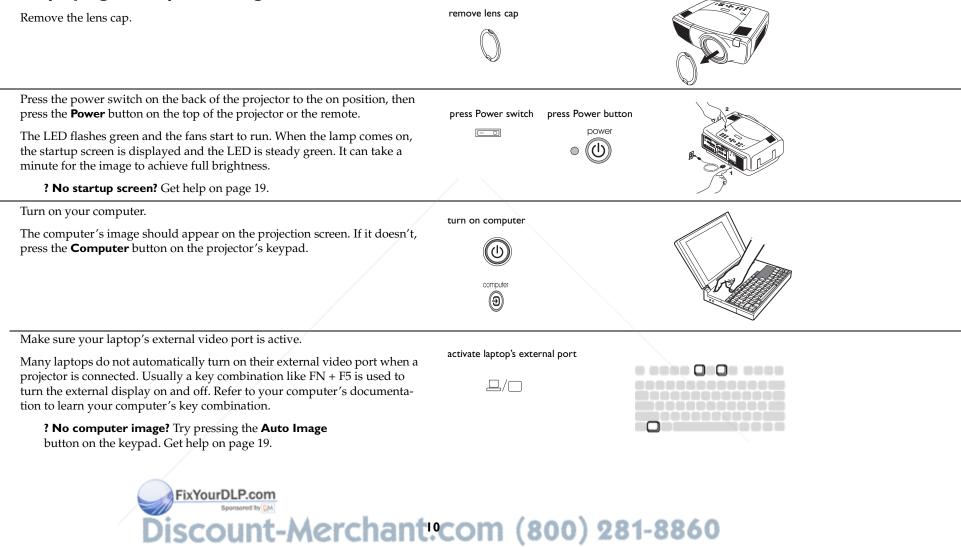
ProjectorNet ← connect CAT-5 cable





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# Displaying a computer image



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### First-time projector use with Windows 98

The first time you connect a computer running Windows 98 to the projector, the computer recognizes the projector as "new hardware" and the Add New Hardware Wizard appears. Follow these instructions to use the Wizard to load the correct driver (which was installed with your Windows operating system).

If you are running Windows 2000, Windows ME, or Window XP, skip these steps and go to "Adjusting the image" on page 13.

- **a** Click Next to begin searching for the driver.
- **b** Make sure "Search for the best driver" is selected, then click Next.

**c** Uncheck any checked boxes, then click Next. Windows automatically locates the driver. If this driver has been removed, reload the driver using your Windows operating system CD.

**d** When Windows finds the driver, you are ready to install it. Click Next.

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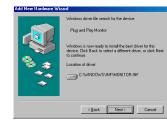
b

с

d



<Back Next> Cancel



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#### Skip this page if you did not connect a USB mouse cable

#### For Windows 98:

- If you connected the USB cable, the Add New Hardware Wizard appears again. Drivers must be installed to use the USB functionality.
- The Wizard launches two times.

The first time it detects a USB Human Interface Device (for the keyboard).

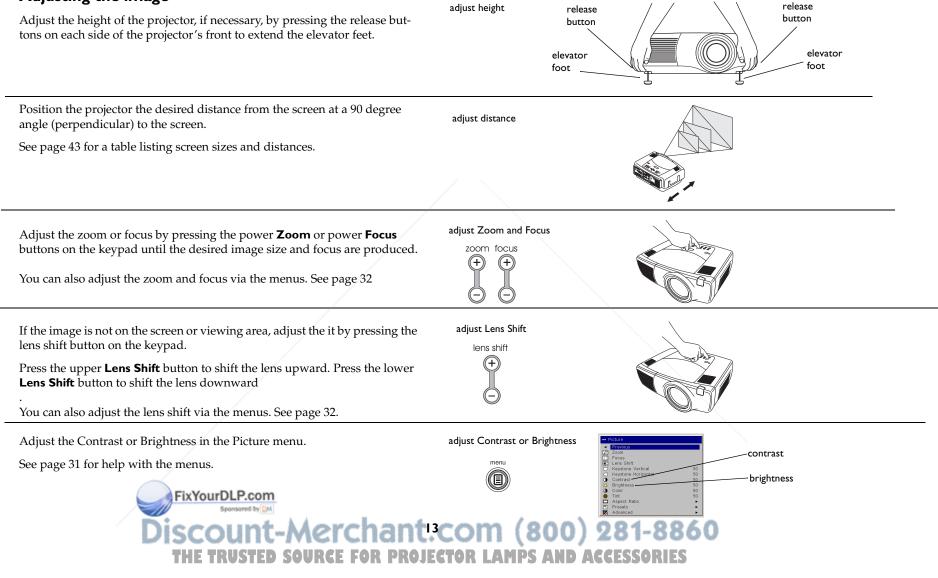
The second time it detects a USB Human Interface Device (for the mouse).

#### For Windows 2000, Windows ME, and Windows XP:

• The USB drivers are automatically installed.



## Adjusting the image



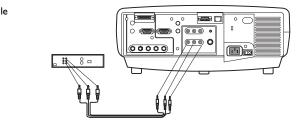
# Connecting a video device

#### Standard video connections

Plug the audio/video (A/V) cable's yellow connector into the video-out connector on the video device. Plug the other yellow connector into the yellow **Video 3** connector on the projector. Plug a white connector into the left audio out connector on the video device and plug a red connector into the right audio out connector on the video device. Plug the remaining white connector into the left **audio in** connector on the projector (to the right of the yellow **Video 3** connector), and plug the red connector into the right **audio in** connector on the projector into the right **audio in** connector on the projector (to the right of the yellow **Video 3** connector), and plug the red connector into the right **audio in** connector on the projector.

connect A/V cable

....



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Connect the black power cable to the connector on the back of the projector and to your electrical outlet. **NOTE**: Always use the power cable that shipped with the projector.



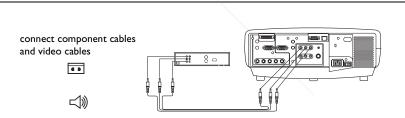
connect S-video and video cables



#### **Optional video connections**

If the video device uses a round, four-prong S-video connector, plug an S-video cable (sold separately) into the S-video connector on the video device and into the **Video 2** connector on the projector. Use the A/V cable's audio connectors as described directly above (the yellow connectors on the A/V cable are not used).

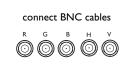
If the video device uses component cable connectors (sold separately), plug the cable's green connectors into the green component-out connector on the video device and into the **Video I** green component connector (labeled "**Y**") on the projector. Plug the component cable's blue connectors into the blue component-out connector on the video device and into the blue component connector (labeled "**Pb**") on the projector. Plug the component cable's red connectors into the red component-out connector on the video device and into the red component connector (labeled "**Pr**") on the projector. Use the A/V cable's audio connectors as described above (the yellow connectors on the A/V cable are not 1 **NOTE**: The component connectors can be used for HDTV sources (480 p, 720p and 1080i formats).

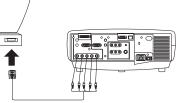


Discount-Merchant COM (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES You can also connect to your video device using a BNC cable. Connect the BNC connectors of the BNC cable to the appropriate **Computer 3** connectors on the projector. Connect the other end to the video port on your video device. Use the A/V cable's audio connectors as described on the previous page (the yellow connectors on the A/V cable are not used).

When 4 BNCs are connected, the projector handles a composite synch on H. When 3 BNCs are connected, the projector handles a composite synch on G.

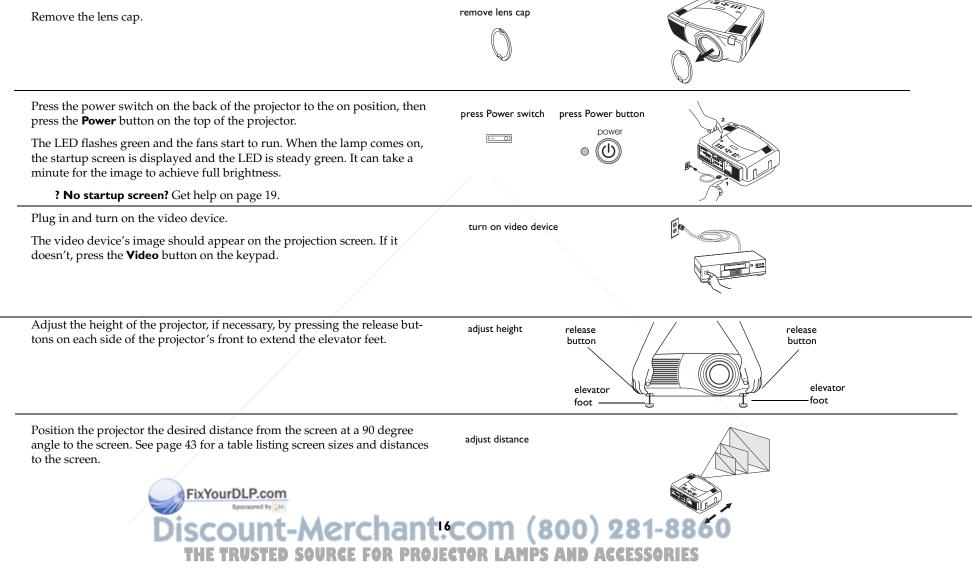
**NOTE**: The BNC connectors can be used for HDTV sources (480i, 480p, 720p and 1080i formats).







# Displaying a video image



Adjust the zoom or focus by pressing the power <b>Zoom</b> or power <b>Focus</b> buttons on the keypad until the desired image size and focus are produced. You can also adjust the zoom and focus via the menus. See page 32	adjust Zoom and Focu zoom focus (+) (+) (-) (-)	s
If the image is not on the screen or viewing area, adjust the it by pressing the lens shift button on the keypad. Press the upper <b>Lens Shift</b> button to shift the lens upward. Press the lower <b>Lens Shift</b> button to shift the lens downward You can also adjust the lens shift via the menus. See page 32.	adjust Lens Shift Iens shiff	
Adjust the volume on the keypad or remote.	adjust volume volume	
Adjust the <b>Contrast, Brightness, Color</b> , or <b>Tint</b> in the Picture menu. See page 31 for help with the menus.	adjust Picture menu	• Previous         • Advanced
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# Shutting down the projector

The projector automatically blanks the screen after no active source is detected for 30 minutes. This blank screen helps preserve the life of the projector. The image returns when an active source is detected or a remote or keypad button is pressed.

#### Screen Save

You can make the blank screen appear after five minutes by turning on Screen Save in the **Settings>System** menu. See page 36.

#### **Power Save**

The projector also has a Power Save feature that automatically turns the lamp off after no signals are detected for 20 minutes. After 10 additional minutes with no signal, the projector powers down. If an active signal is received before the projector powers down, the image is displayed. You must press the Power button to display an image after 30 minutes have passed. When Power Save is enabled, Screen Save is disabled. See page 36.

#### Turning off the projector

To turn off the projector, press the **power** button and verify that you want to turn the projector off by pressing the power button again within 3 seconds. You can cancel the shutdown by not pressing the **power** button a second time. The lamp turns off and the LED blinks green for over 1 minute while the fans continue to run to cool the lamp. When the lamp has cooled, the LED lights green and the fans stop. Press the power switch on the back of the projector and unplug the power cable to completely power off the projector.

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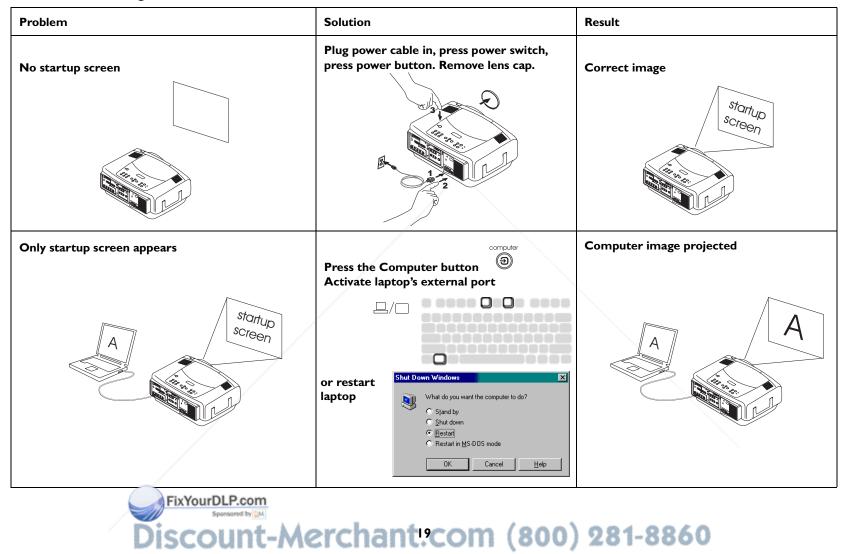
# Troubleshooting your setup

If your image appears correctly on the screen, skip to the next section. If it does not, troubleshoot the setup. The LED on top of the projector indicates the state of the projector and can help you troubleshoot. See "LED Behav-ior" on page 46. for information on LED behavior and what it means.

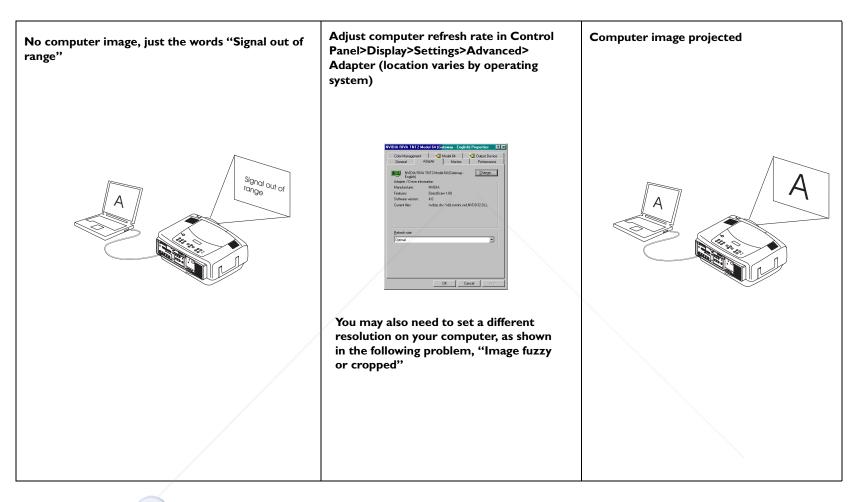
The following tables show common problems. In some cases, more than one possible solution is provided. Try the solutions in the order they are presented. When the problem is solved, you can skip the additional solutions.

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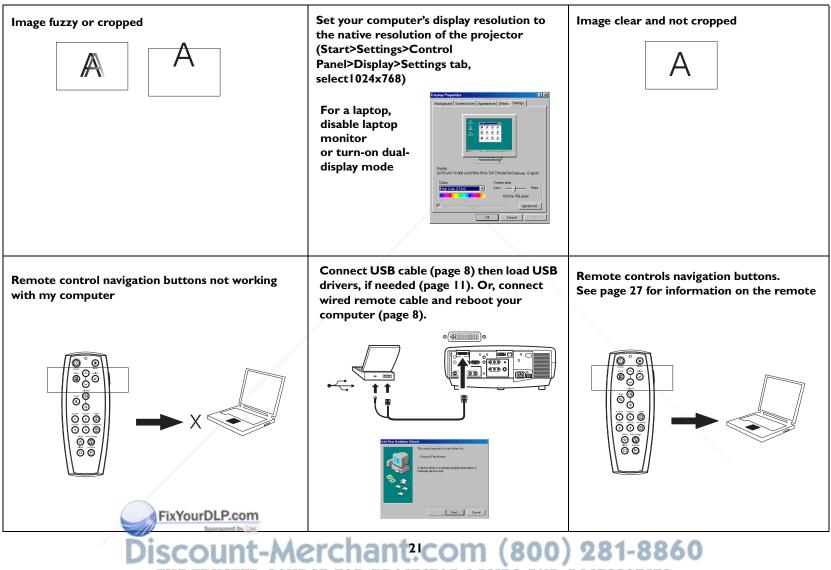
#### **Source Troubleshooting**



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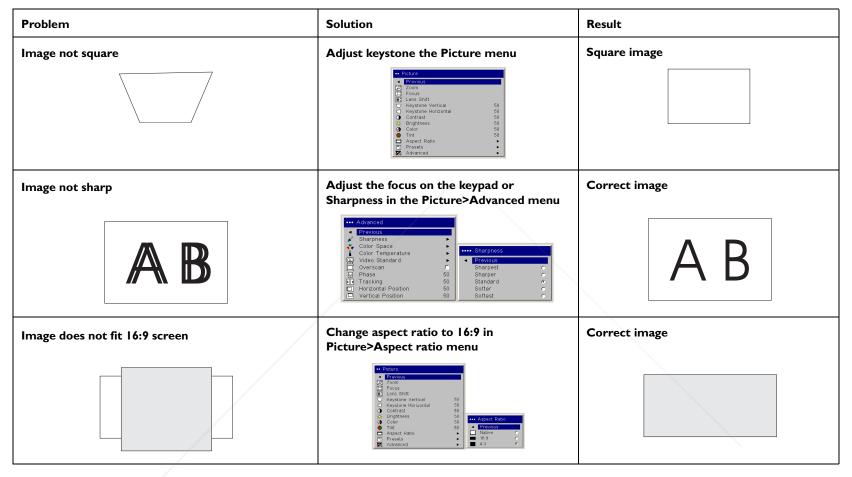




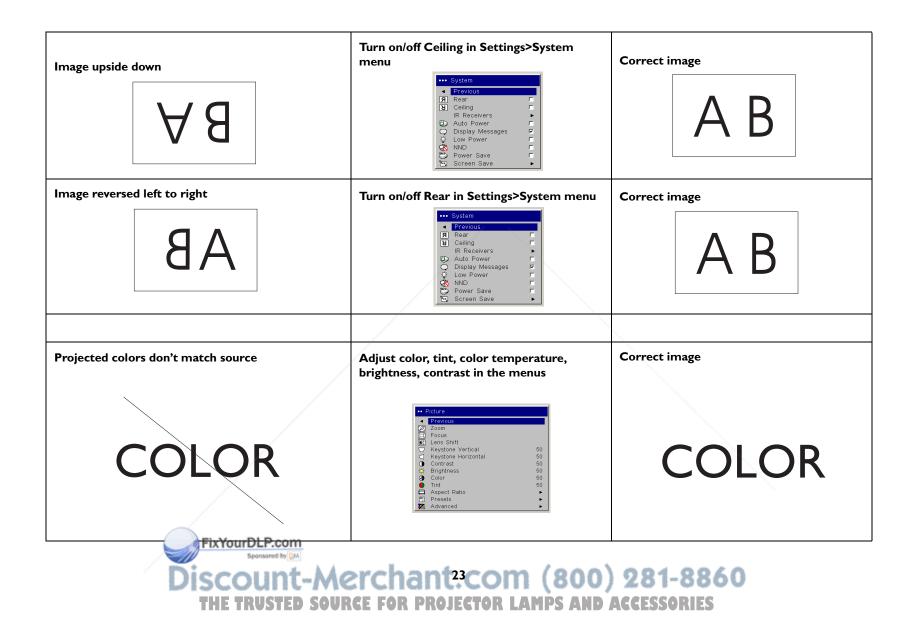


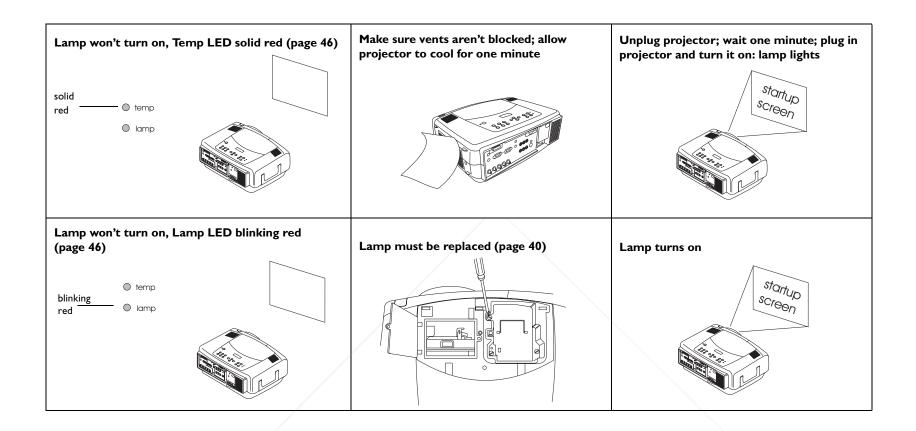
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#### **Projector troubleshooting**

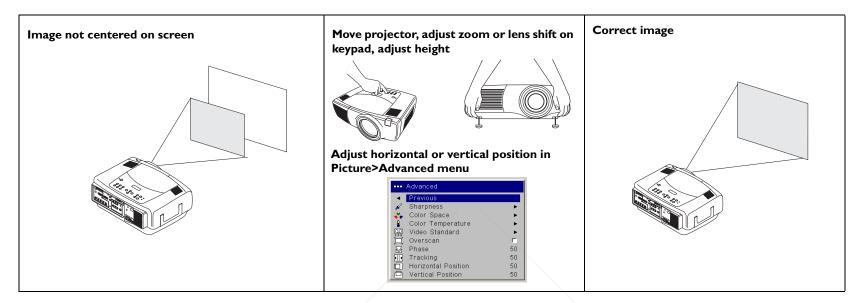












#### Still having problems?

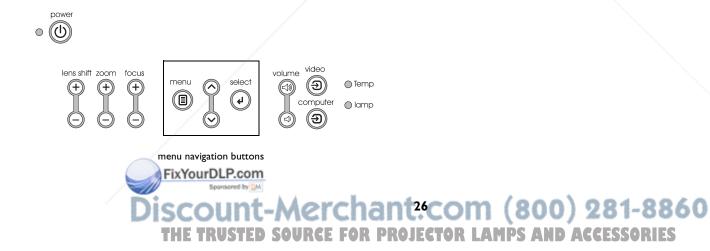
If you need assistance, visit our website or call us. See the inside of the back cover for a list of all contact numbers and relevant web addresses.

This product is backed by a limited two-year warranty. An extended warranty plan may be purchased from your dealer. When sending the projector in for repair, we recommend shipping the unit in its original packing material, or having a professional packaging company pack the unit. An optional ATA shipping case is available for purchase that provides adequate protection for shipping. Please insure your shipment for its full value.

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# Using the keypad buttons

Most buttons are described in detail in other sections, but here is an overview of their functions: **power**-turns the projector on (page 10) and off (page 16). **lens shift**-shifts the projected image up or down **zoom**-moves the projected image closer or further away. **focus**-adjusts the clarity. **menu**-opens the on-screen menus (page 31). **up/down arrows**-navigates to and adjusts settings in the menus (page 31). **select**-confirms choices made in the menus (page 31). **volume**-adjusts sound (page 28). **video and computer**-changes the active source. **temp**-alerts you to possible temperature-related problems (page 46). **lamp**-alerts you to possible lamp-related problems (page 46).



## Using the remote control

The remote uses two (2) provided AAA batteries. They are easily installed by sliding the cover off the remote's back, aligning the + and - ends of the batteries, sliding them into place, and then replacing the cover.

To operate, point the remote at the projection screen or at the projector (not at the computer). The range of optimum operation is about 30 feet (9.14m).

To use the laser pointer, press and hold the **Laser** button. The laser turns off when the button is released, or times out after two (2) minutes of continuous operation.

**WARNING**: Do not look into the laser beam emitted from the top of the remote control.

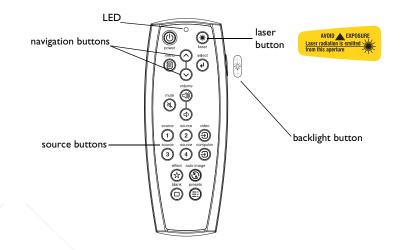
The remote contains four **Source** buttons that allow you to assign a particular input to a specific source. Simply press the numbered Source buttons to travel to whatever four sources you wish to have available.

Press the remote's **Menu** button to open the projector's menu system. Use the arrow buttons to navigate, and the **Select** button to select features and adjust values in the menus.

The remote also has a power button to turn the projector on and off, volume buttons and a mute button to control the sound, a backlight button to light the remote's buttons in the dark, and a video and computer button to switch between those two sources.

Two presentation-specific features are also provided. Use the blank button to display a blank screen instead of the current slide; use the effect button to invoke a user-definable action, such as freeze, PiP, or magnify.

The Auto Image button reacquires the computer image and the Presets button lets you customize the settings for each source. Up to three Preset settings can be customized and saved.



#### Troubleshooting the remote

- Make sure the batteries are installed in the proper orientation and are not dead. The LED at the top of the remote lights when any button is pressed when the battery power is adequate.
- Make sure you're pointing the remote at the projector, not the computer, and are within the remote range of 30 feet (9.14m).
- If you are trying to control your computer's mouse, make sure a mouse cable is connected. If using a the USB cable that is part of the M1 cable, make sure the correct drivers are installed.

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# Using the audio

To play sound from the projector, connect your source to the Audio In connector on the projector.

To adjust the volume, use the buttons on the keypad or remote.

To adjust the balance, or loudness, use the Audio menu (see page 35).

To mute the sound, press the **Mute** button.

#### **Troubleshooting audio**

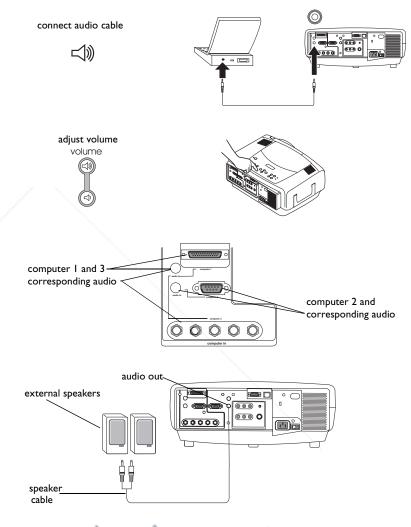
If there is no sound, check the following:

- Make sure the audio cable is connected.
- Make sure mute isn't active.
- Make sure the volume is turned up enough. Press the volume button on the keypad or remote.
- Make sure you are connected to the corresponding audio in for your source. Computer 1 and 3 share a single audio input. Computer 2 has its own audio input. Video 1, 2 and 3 share a single stereo input.
- Adjust the audio source.
- If playing a video, make sure the playback has not been paused.

#### **Connecting external speakers**

The projector can be attached to external speakers that have their own power source by plugging speaker cables into the projector's **Audio Out** connector.

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# **Optimizing computer images**

After your computer is connected properly and the computer's image is on the screen, you can optimize the image using the onscreen menus. For general information on using the menus, see page 31.

- Adjust the Keystone, Contrast, or Brightness in the Picture menu.
- Change the Aspect Ratio. Aspect Ratio is the ratio of the image width to image height. TV screens are usually 1.33:1, also known as 4:3. HDTV and most DVDs are 1.78:1, or 16:9. Choose the option that best fits your input source. See page 32 for details.
- Adjust the Color Temperature in the Advanced menu.
- Adjust the Phase, Tracking, or Horizontal or Vertical position in the Advanced menu.
- Once you have optimized the image for a particular source, you can save the settings using Presets. This allows you to quickly recall these settings later. See page 33.

## **Presentation features**

Several features are provided to make giving presentation easier. The following is an overview, details are found in the menu section on page 31.

- The remote's **Effect** button allows you to assign various features to the key. The default effect is Magnify. You can select from Blank, Mute, Aspect Ratio, Source, Auto Image, Freeze, Magnify, About, and PiP Source. See page 37 for details.
- The Freeze effect allows you to freeze the displayed image. This is useful if you want to make changes on your computer without your audience seeing them.
- The **Blank** button on the remote allows you to display a blank screen instead of the active source. See page 36.
- The PiP Source effect lets you change the video source in a smaller window on top of the computer image. See page 37.
- The Startup Logo menu option lets you change the default startup screen to a black, white, blue, or a custom logo screen via Logo Capture. See page 36.
- Two menu options, Power Save and Screen Save, are provided to automatically shut down the projector after several minutes of inactivity or display a blank screen. This helps preserve lamp life. See page 35 and page 36.
- A Low Power menu option is also available to help lower the projector's fan sound volume. See page 35.

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# **Optimizing video images**

After the video device is connected properly and the image is on the screen, you can optimize the image using the onscreen menus. For general information on using the menus, see page 31.

- Adjust the Keystone, Contrast, Brightness, Color, or Tint in the Picture menu. See page 32.
- Change the Aspect ratio. Aspect ratio is the ratio of the image width to image height. TV screens are usually 1.33:1, also known as 4:3. HDTV and most DVDs are 1.78:1, or 16:9. Choose the option that best fits your input source. See page 32.
- Select a Sharpness setting. See page 34.
- Adjust the Color Temperature. Select a listed value, or select User and individually adjust the intensity of the red, green, and blue color. See page 34.

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# **Customizing the projector**

You can customize the projector for your specific setup and needs. See page 35 to page 39 for details on these features.

- For rear projection, turn Rear mode on in the **Settings>System** menu.
- For ceiling mounted projection, turn Ceiling mode on in the **Set**tings>System menu.
- Specify which source the projector checks first for an active signal during power-up.
- Specify the function of the Effect Key on the remote.
- Turn the projector's on-screen display messages on and off.
- Turn on power saving features.
- Specify blank screen colors and startup logos.
- Specify the menu language.
- Manage your projector via ProjectorNet software. See page 9 for more information.
- Control your projector using RS232 commands. See page 9.
- Customize the projector for your specific installation using optional long or short throw lenses. See the inside back cover of this User's Guide for ordering information.
- Gain control of your projector from your laptop with InFocus ProjectorManager<sup>m</sup>, a free application that turns any PC into an advanced projector remote control.

ProjectorManager can be downloaded from our website link found on the CD that came with your projector.

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# Using the menus

To open the menus, press the menu button on the keypad or remote. (The menus automatically close after 60 seconds if no buttons are pressed.) The Main menu appears. Use the arrow buttons to move up and down to highlight the desired submenu, then press the **Select** button.

To change a menu setting, highlight it, press **Select**, then use the up and down arrow buttons to adjust the value, select an option using radio buttons, or turn the feature on or off using check boxes. Press **Select** to confirm your changes. Use the arrows to navigate to another setting. When your adjustments are complete, navigate to Previous, then press **Select** to go to the previous menu; press the **Menu** button at any time to close the menus.

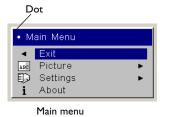
Dots appear before the menu name. The number of dots indicate the menu's level, ranging from one (the Main menu) to four (the most nested menus).

The menus are grouped by usage:

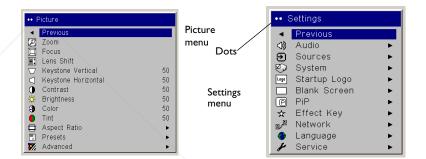
- The Picture menu provides image adjustments.
- The Settings menu provides set-up type adjustments that are not changed often.
- The About menu provides a read-only display of information about the projector and source.

Certain menu items may be grayed out until a particular source is connected. For example, Sharpness is only available for video sources and will be hidden when a computer source is active. Other menu items may be grayed out when they are not available. For example, Brightness is grayed out until an image is active.

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	About	
Lamp Hours Used	123	
Filter Hours Used	123	About menu
Active Source	Computer 1	
Signal Format	1024x768 - 72Hz	
Version		

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### **Picture menu**

To adjust the following six settings, highlight the setting, press **Select**, use the up and down arrows to adjust the values, then press select to confirm the changes.

**Zoom**: allows you to adjust a lens to zoom in and out. Highlight Zoom, then press the up or down arrows on the keypad or remote.

**Focus**: allows you to adjust the lens focus for an image. Highlight Focus, then press the up or down arrows on the keypad or remote.

**Lens Shift**: allows you to mechanically shift the lens. Highlight Lens Shift, then press the up or down arrows on the keypad or remote.

**Keystone Vertical**: adjusts the image vertically and makes a squarer image by using an adjustable scale band.

**Keystone Horizontal**: adjusts the image horizontally and makes a squarer image by using an adjustable scale band.

**Contrast**: controls the degree of difference between the lightest and darkest parts of the picture and changes the amount of black and white in the image.

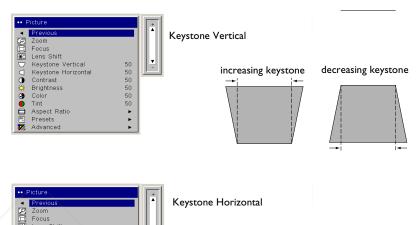
**Brightness**: changes the intensity of the image.

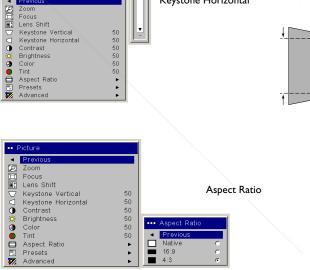
**Color**: (video sources only) adjusts a video image from black and white to fully saturated color.

**Tint**: adjusts the red-green color balance in the image.

**Aspect Ratio**: Aspect ratio is the ratio of the image width to image height. TV screens are usually 1.33:1, also known as 4:3. HDTV and most DVDs are 1.78:1, or 16:9. The default is 4:3, which displays the input resized up or down to fill the display area.

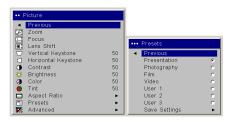
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Discount-Merchant<sup>32</sup>com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES **Presets**: The provided Presets optimize the projector for displaying computer presentations, photographs, film images, and video images. (Film input is material originally captured on a film camera, like a movie; video input is material originally captured on a video camera, like a TV show or sporting event.) You can use the preset as a starting point, then further customize the settings for each source. The settings you customize are saved in the preset for each source. To restore the factory default settings, choose Factory Reset in the **Settings>Service** menu.

There are also three user-definable presets. To set a preset for the current source, adjust the image, then choose Save User 1, 2, or 3 in the **Save Settings** menu. You can recall these settings in the future by selecting the appropriate user presets.



	Save Settings
••••	Save Settings
•	Previous
	Save User 1
	Save User 2
	Save User 3

c c ...

Presets



#### **Advanced settings**

**Sharpness**: (video sources only) changes the clarity of the edges of a video image. Select a sharpness setting.

**Color Space**: This option applies to computer and component video sources. It allows you to select a color space that has been specifically tuned for the input signal. When Auto is selected, the projector automatically determines the standard. To choose a different setting, turn off Auto, then choose RGB for computer sources, choose either SMPTE240, REC709 or REC601 for component video sources.

**Color Temperature**: changes the intensity of the colors. Select a listed value, or select User and individually adjust the intensity of the red, green, and blue colors.

**Video Standard**: when set to Auto, the projector attempts to automatically pick the video standard based on the input signal it receives. (The video standard options may vary depending on your region of the world.) If the projector is unable to detect the correct standard, the colors may not look right or the image may appear "torn." If this happens, manually select a video standard by selecting NTSC, PAL, or SECAM from the Video Standard menu.

**Overscan**: (video sources only) removes noise around the video image.

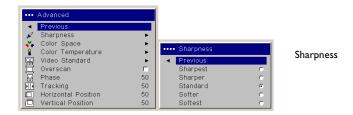
The following 4 options are for computer sources only.

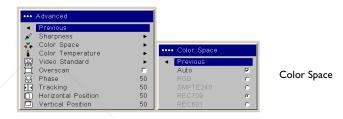
**Phase**: adjusts the horizontal phase of a computer source.

**Tracking**: adjusts the vertical scan of a computer source.

Horizontal / Vertical Position: adjusts the position of a computer source.

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<ul> <li>Previous</li> </ul>				
🖌 Sharpness	•	•••• Color Temperatu	ire	Color Temperature
💑 Color Space	•	<ul> <li>Previous</li> </ul>		
Color Temperature	•	6500K	0	
Video Standard Overscan	•	7200K	۲	
🗍 Overscan		9300K	0	
🛛 Phase	50	User	0	
Phase Tracking Horizontal Position	50		50	
Horizontal Position	50		50	
Vertical Position	50		50	

Advanced

 Previous
 Color Space
 Color Temperature
 Video Standard
 Prave
 Overscan
 Fraking
 Phase
 50
 Tracking
 Forevious
 Auto
 Phase
 50
 NTSC
 PAL
 SECAM
 C

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### **Settings menu**

**Audio**: allows adjustments to the Balance and Volume. Also allows you to turn on and off the Internal speakers, and projector startup Chime.

**Sources**: allows you to assign a particular input to a specific source key when using the Integrator remote. Also allows selection of a default Startup Source and enables or disables Autosource.

**Sources>Power-up Source:** this determines which source the projector checks first for active signal during power-up.

**Sources>Autosource:** When Autosource is not checked, the projector defaults to the source selected in Powerup Source. If no source is found, a blank screen displays. When Autosource is checked, Powerup Source determines which source the projector defaults to at power-up. If no signal is present, the projector checks the sources in order until a source is found or until power down.

**System>Rear:** reverses the image so you can project from behind a translucent screen.

**Ceiling**: turns the image upside down for ceiling-mounted projection.

**IR Receivers**: turns individual IR receivers off or on to avoid environmental interference.

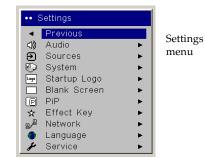
**Auto Power**: When Auto Power is checked, the projector automatically goes into the startup state after the projector is powered on. This allows control of ceiling mounted projectors with a wall power switch.

**Display Messages**: displays status messages (such as "Searching" or "Mute") in the lower-left corner of the screen.

**Low Power**: toggles between on and off. Turn it on to lower the light output of the lamp. This also lowers the fan speed, making the projector quieter.

**NND**: prevents your notebook computer from going into Screen Save mode (functions only when the USB connector is plugged in).

**Power Save**: automatically turns the lamp off after no signals are detected for 20 minute. After 10 additional minutes with no signal, the projector powers down, the age will be displayed.



IR Receivers

Display Messages

🖾 Auto Power

NND

Low Power

Power Save

🔄 Screen Save

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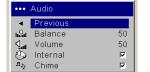
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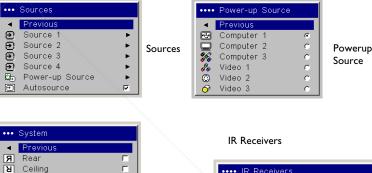
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Discount-Merchant<sup>35</sup>COM (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES **Screen Save**: automatically blanks the screen after no signals are detected for five minutes. The image returns when an active source is detected or a remote or keypad button is pressed. Screen Save is disabled when Power Save is enabled.

**Startup Logo:** allows you to display a blank Black, White, or Blue screen instead of the default screen at startup and when no source is detected. It also allows you to capture and display a custom startup screen.

To capture a custom logo, display the image you want to capture on your computer and select the Logo Capture option. From the **Logo Capture** menu, use the Capture Position X and Capture Position Y adjustments to frame the logo to be captured. Press Capture Start in the **Logo Capture** menu. The projector will let you know if the capture was a success or a failure.

The next time you start the projector, the custom logo you captured displays.

**Blank Screen**: determines what color is displayed when you press the **Blank** button on the remote.

•••• 8	icreen Save		
< F	revious		
5	Minutes	0	Save Screen
1	0 Minutes	0	Save Screen
1	5 Minutes	0	
2	0 Minutes	0	
2	5 Minutes	0	
3	0 Minutes	۲	

•••	Startup Logo	
•	Previous	
C.,,,,	Default	۲
	Blank Screen	0
Č	Captured	0
R.	Logo Capture	•

Startup Logo





Blank Screen



**PiP**: (Picture in Picture) allows you to overlay a smaller window showing the video source on top of the larger computer source window. Only video sources 2 and 3 (composite and S-video) support PiP. You must have both a computer and video source connected to use PiP. You can't show a computer image in the smaller PiP window, only a video image. You can select a small, medium, or large window. You can also move the PiP window on the screen using the PiP Position X and Y options, or the Upper left, Upper Right, Lower Left, or Lower Right options in the menu. Press the up and down arrows to change the position.

**Effect Key**: allows you to assign a different function to the **Effect** button on the remote to quickly and easily use the effect. Only one effect can be enabled at a time. Highlight an effect and press **Select** to choose a different one.

Blank: shows an empty screen.

Mute: turns off all sound.

Aspect Ratio: sets the ratio of the image width to image height.

**Source**: cycles through the available sources.

Auto Image: causes computer sources to be reacquired.

Freeze: pauses the projected image.

**Magnify**: Is the default effect. It allows you to enlarge a section of the projected image.

**About**: displays the About menu.

**PiP Source**: changes the video source of Picture in Picture smaller window display on the projected screen.



**PiP Position** 

•••	Effect Key	
੶ ▼□×□•©**	Previous Blank Mute Aspect Ratio Source Auto Image Freeze Magnify	 Effect Key
i	About PiP Source	



**Network**: The projector has an RJ45 Ethernet connector that supports network connections and TCP/IP protocols. This will allow for the control and management of the projector over a corporate network. The following fields are accessible when DHCP is not checked and available for manual entry of data.

**IP Address:** Identifies the projector on the network.

Subnet mask: Separates the network address part of the IP address.

Default gateway: The IP address of the local router.

**DHCP:** Select this to automatically obtain an IP address, Subnet mask, and Default gateway.

**Network Info:** Provides information on the network configuration.

The **Network Info** menu is informational and cannot be edited. It displays the current IP Address, Subnet Mask, Default Gateway, and the projector's MAC Address.

**Language**: allows you to select a language for the onscreen display of menus and messages.

**Service**: to use these features, highlight them and press **Select**.

**Factory Reset**: restores all settings (except Lamp Hours and Network settings) to their default after displaying a confirmation dialog box.

**Lamp Reset**: resets the lamp hours counter in the About menu to zero. Do this only after changing the lamp. It displays a confirmation dialog box.

**Filter Reset**: resets the filter counter in the About menu to zero. Do this only after cleaning the filter. It displays a confirmation dialog box.

Service Code: only used by authorized service personnel.

••••	Network	
•	Previous	
	Subnet Mask	
	Default Gateway	
	DHCP	2
	Network Info	•



<ul> <li>Network Info</li> </ul>	
Exit	
IP Address	255.255.255.255
Subnet Mask	255.255.255.255
Default Gateway	255.255.255.255
Mac Address	00:0A:32:4F:7E:97

Network Info

••	Language		
•	Previous		
	English	۲	
	Norsk	0	
	Deutsch	0	
	Español	0	
	Français	0	Language
	Italiano	0	0.00
	Português	0	
	Русский	0	
	日本語	0	
	한국어	0	
	繁體中文	0	
	简体中文	0	



## Maintenance

**NOTE**: When you are performing maintenance activities on your projector, keep in mind that you should only remove screws that are single-slot, or flathead, screws. Any other type of screw, such as a phillips or star should not be removed. These types of screws should only be removed by technical support experts.

#### **Cleaning the lens**

I Apply a non-abrasive camera lens cleaner to a soft, dry cloth.

Avoid using an excessive amount of cleaner, and don't apply the cleaner directly to the lens. Abrasive cleaners, solvents or other harsh chemicals might scratch the lens.

**2** Lightly wipe the cleaning cloth over the lens in a circular motion. If you don't intend to use the projector immediately, replace the lens cap.

### Changing the lens

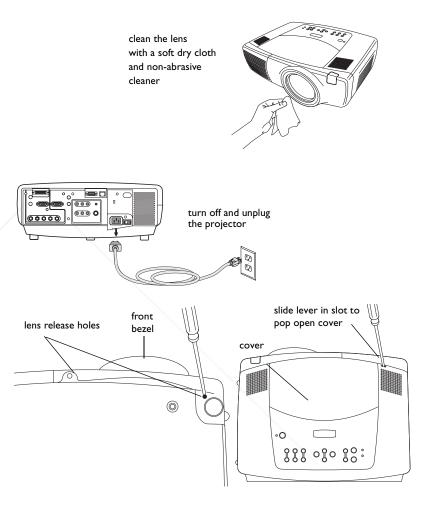
Long throw and short throw lenses are available with your projector.

- I Turn off the projector and unplug the power cable.
- **2** Turn the projector upright with the lens facing upward and use a screwdriver to remove the two screws from the front bezel release holes on the bottom of the projector.
- **3** Lift off the front bezel.
- **4** Gently place a flathead screwdriver into the slot on the top of the projector (it is by the right speaker) and slide the small lever toward the right speaker. The cover that protects the lens and the lamp housing pops up.

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**5** Loosen the captive screw to the door that covers the lens housing.



- **6** To remove a lens, push the lever inside the lens housing and turn the lens counterclockwise until it stops. Remove the lens.
- **7** To install a new lens, place it in the opening through the front of the projector, aligning the red dot (near the base of the lens) with the red dot on the projector. Turn clockwise until you feel the lens click into place.
- **8** Tighten the captive screw to the lens housing door. Place the front bezel back onto the projector and replace the two screws on the bottom of the projector. Replace the cover that protects the lens and the lamp housing on top of the projector.

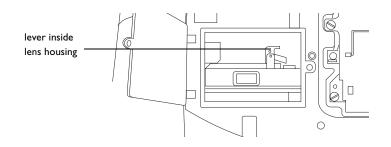
#### **Replacing the projection lamp**

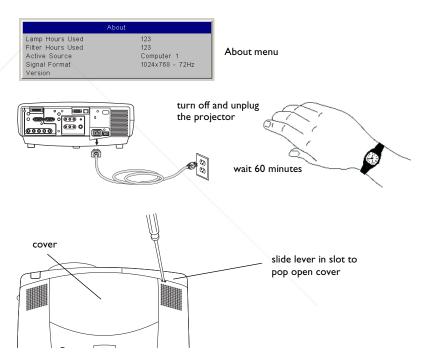
The lamp hour timer in the About menu counts the number of hours the lamp has been in use. Twenty hours before the specified end of the lamp's life, the message "Replace lamp" briefly appears on the projected screen. After twenty additional hours, the lamp will no longer light. You can order new lamp modules from your dealer. See the Accessories catalog that came with the projector or visit our website for information.

- I Turn off the projector and unplug the power cable.
- **2** Wait 60 minutes to allow the projector to cool thoroughly.
- **3** Gently place a flathead screwdriver into the slot on the top of the projector (it is by the right speaker) and slide the small lever toward the right speaker. The cover that protects the lamp housing and the lens pops up.

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The lamp module is on the right.





Discount-Merchant<sup>4</sup>COM (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES **4** Loosen the three captive screws on the lamp module.

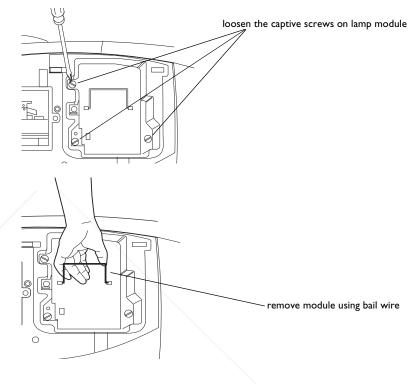
#### WARNINGS:

- To avoid burns, allow the projector to cool for at least 60 minutes before • you replace the lamp.
- Do not drop the lamp module. The glass may shatter and cause injury. •
- Do not touch the glass lamp screen. Fingerprints can obscure projection • sharpness.
- Be extremely careful when removing the lamp housing. In the unlikely • event that the lamp ruptures, small glass fragments may be generated. The lamp module is designed to contain most of these fragments, but use caution when removing it.
- **5** Carefully remove the lamp module by grasping and lifting the metal bail wire. Dispose of the lamp in an environmentally proper manner.
- **6** Install the new lamp module, making sure that it is properly seated.
- **7** Tighten the three captive screws.
- **8** Replace the cover over the lamp module by inserting the tabs into the tab bays and pushing the rest of the cover down into place.
- **9** Plug in the power cable, press the power switch then press the **Power** button to turn the projector back on.
- **10** Reset the lamp hour timer. See page 38 for more information.

#### **Resetting the lamp timer**

If the lamp timer has reached the maximum number of hours for the projector lamp, the LED on the projector's keypad will show a lamp error (see "LED Behavior" on page 46). To reset the lamp timer, simultaneously press the decrease volume button and increase volume button on the keypad for 10 seconds. At that point the LED will turn green and you can power on the ate to the **Settings>Service** menu and select projector. You can also

Lamp Reset to reset the





reset lamp time in Service menu

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#### **Cleaning the dust filter**

- I Turn off the projector and unplug the power cable.
- **2** Wait 60 minutes to allow the projector to cool thoroughly.

**WARNING**: To avoid burns, allow the projector to cool for at least 60 minutes before you clean or replace the dust filter.

- **3** Remove the dust filter grill door on the side of the projector by pulling down on the two tabs at the grill's top.
- **4** Press the tab on the center of the dust filter and lift it off.
- **5** Clean the filter using a vacuum set on low power.
- **6** Replace the dust filter and the dust filter grill door.
- **7** Reset the filter hour timer.

#### Troubleshooting

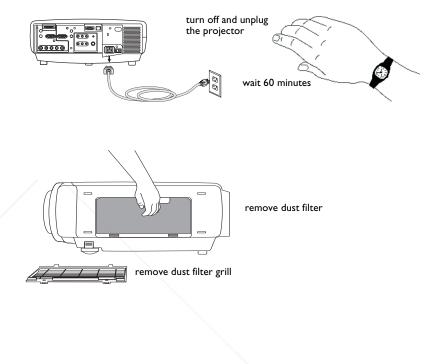
If the Temp and Lamp LEDs indicate a problem with the filter, check the following:

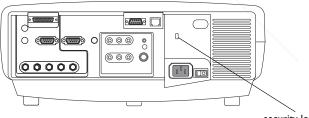
- Use a soft cloth to wipe the mirrors on the dust filter grill.
- Remove the dust filter and use a soft cloth to wipe the window behind the dust filter.
- Replace the dust filter and the dust filter grill.

#### Using the security lock

The projector has a security lock for use with a cable lock system. See the Accessories catalog that came with the projector, or visit our website, for ordering information. Refer to the information that came with the lock for instructions on how to use it.

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security lock

## Appendix

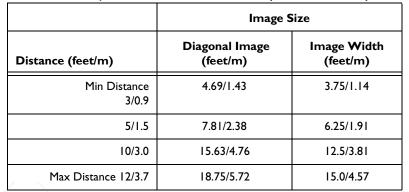
#### Projected image size

**NOTE**: Visit our website for an interactive image size calculator.

Table 1: Proj	ection sizes: Standard len	s (1.5 - 2.2:1 throw ratio)

	Minimum Image		Maximum Image	
Distance (feet/m)	Diagonal Image (feet/m)	lmage Width (feet/m)	Diagonal Image (feet/m)	lmage Width (feet/m)
Min Distance 3/0.9	1.7/0.52	1.46/.42	2.5/0.76	1.82/0.55
5/1.5	2.84/0.87	2.27/.69	4.17/1.27	4.55/1.39
10/3.0	5.68/1.73	4,55/1.39	8.33/2.54	9.09/2.77
20/6.1	11.36/3.46	9.09/2.77	16.67/5.08	13.33/4.06
30/9.1	17.05/5.2	13.64/4.16	25.0/7.62	20.0/6.10
40/12.2	22.73/6.93	18.18/5.54	33.33/10.16	26.67/8.13
Max Distance 45.5/13.9	25.85/7.88	20.68/6.20	37.92/11.56	30.33/9.25

The image offset range for the standard lens is 10:1 (100%) to 1:1 (50%).



The optimal offset setting for the fixed focus short throw lens is 50% (on axis).

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#### Table 2: Projection sizes: Short Fixed lens (0.8:1 throw ratio)

	Minimum	Image	Maximum Image		
Distance (feet/m)	Diagonal Image (feet/m)	lmage Width (feet/m)	Diagonal Image (feet/m)	lmage Width (feet/m)	
Min Distance 2/0.6	1.67/0.51	1.33/0.41	2.27/0.69	1.82/0.55	
5/1.5	4.17/1.27	3.33/1.02	5.68/1.73	4.55/1.39	
10/3.0	8.33/2.54	6.67/2.03	11.36/3.46	9.09/2.77	
20/6.1	16.67/5.08	13.33/4.06	22.73/6.93	18.18/5.54	
25/7.6	20.83/6.35	16.67/5.08	28.41/8.66	22.73/6.93	
Max Distance 30.5/9.3	25.42/7.75	20.33/6.2	34.66/10.56	27.73/8.45	

Table 3: Projection sizes: Short Zoom lens (1.1 -1.51
---

$T_{1}$ , $T_{2}$ , $T_{1}$ , $T_{2}$ , $T_{1}$ , $T_{2}$ , $T$	(=00/)
The image offset range for the short throw lens is 10:1 (100%) to 1:1	(50%).
	()-

	Minimum Image		Maximu	m Image
Distance (feet/m)	Diagonal Image (feet/m)	Image Width (feet/m)	Diagonal Image (feet/m)	Image Width (feet/m)
Min Distance 4.2/1.3	1.28/0.39	1.02/.31	2.39/0.73	1.91/0.58
10/3.0	3.05/0.93	2.44/0.74	5.68/1.73	4.55/1.39
20/6.1	6.1/1.86	4.88/1.49	11.36/3.46	9.09/2.77
30/9.1	9.15/2.79	7.32/2.23	17.05/5.2	13.64/4.16
40/12.2	12.2/3.72	9.76/2.97	22.73/6.93	18.18/5.54
60/18.3	18.29/5.58	14.63/4.46	34.09/10.39	27.27/8.31
Max Distance 60/18.3	25.37/7.73	20.29/6.19	47.27/14.41	37.82/11.53

The image offset range for the long throw lens is 10:1 (100%) to 1:1 (50%).



	Minimum	Image	Maximu	m Image
Distance (feet/m)	Diagonal Image (feet/m)	lmage Width (feet/m)	Diagonal Image (feet/m)	lmage Width (feet/m)
Min Distance 7.5/2.3	l.28/0.39	1.03/0.31	2.4/0.73	1.92/0.59
25/7.6	4.28/1.3	3.42/1.04	8.01/2.44	6.41/1.95
50/15.2	8.56/2.61	6.85/2.09	16.03/4.88	12.82/3.91
75/22.9	12.84/3.91	10.27/3.13	24.04/7.33	19.23/5.86
100/30.5	17.12/5.22	13.70/4.18	32.05/9.07	25.64/7.82
125/38.1	21.4/6.52	17.12/5.22	40.06/12.21	32.05/9.77
Max Distance 146.5/44.7	25.09/7,65	20.07/6.12	46.96/14.31	37.56/11.45

Table 5: Projection sizes: Super Long throw lens 3.9 - 7.3:1)

The image offset range for the super throw lens is 10:1 (100%) to 1:1 (50%).



#### **LED Behavior**

LED color/behavior	Meaning
Power: blinking green Temp: N/A Lamp: N/A	The power switch has been toggled on and the software is initializing, or the projector is powering down and the fans are running to cool the lamp.
Power: blinking green (once) Temp: N/A Lamp: N/A	Power Save or Screen Save.
Power: solid green Temp: N/A Lamp: N/A	The power switch has been toggled on and the software has initialized or the projector has been powered off via the remote.
Power: solid green Temp: blinking red Lamp: blinking red	If Temp and Lamp are flashing simulta- neously, the filter hasn't been cleaned in 100 hrs. If Temp and Lamp are flashing simulta- neously (twice), the cooling air filter may be dusty. Please see "Cleaning the dust filter" on page 42. If Temp and Lamp are flashing alter- nately, the projector is below temper- ature specifications. Please use the projector in an environment between 0°C/32°F to 35°C/95°F. Contact Technical Support if the problem per- sists.

Power: solid red Temp: N/A Lamp: blinking red	Lamp won't strike (blinks one time) Lamp has exceeded lamp hours limit (blinks two times) Lamp has failed (blinks three times) Lamp door is open (blinks four times) Turn off the projector and wait one minute, then turn the projector on again. If the projector has exceeded its lamp life limit, replace the lamp and reset the lamp timer. Please con- tact Technical Support if the problem persists.
Power: solid red	Fan failure. Make sure the vents aren't
Temp: blinking red	blocked. Contact Technical Support if
Lamp: N/A	the problem persists.
Power: solid red	The projector is overheating. Contact
Temp: solid red	Technical Support if the problem per-
Lamp: N/A	sists.
Power: solid red Temp: N/A Lamp: N/A	Unidentified error. Please contact Technical Support.

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#### **RS-232** commands

#### **Communication Configuration**

Visit our website for additional RS-232 settings and information.

To control this projector via RS-232, connect a null modem cable and set the control system serial port settings to match the following communication configuration:

RS-232 Port Settings						
Setting	Value					
Bits per second	19,200					
Data bits	8					
Parity	None					
Stop bits	1					
Flow control	None					
Emulation	VT100					

#### **Command Format**

All commands consist of 3 alpha characters followed by a request, all enclosed in parentheses. The request can be a read request (indicated by a "?") or a write request (indicated by 1 to 4 ASCII digits).

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A read request example:

(AAA?) where

( starts the command

AAA denotes the command

? denotes the read r ) ends the command A read command returns the range and the current setting, for example:

Read Command Examples							
Function Command Response							
Brightness	(BRT?)	(96-160,128)					
Volume	(VOL?)	(0-32, 0)					
Lamp Hours	(LMP?)	(0-65534, 42)					

A write request example:

(AAA######) where (starts the command AAA denotes the command ###### denotes the value to be written (leading zeros not necessary) ) ends the command

Some commands have ranges, while others are absolute. If a number greater than the maximum range is received, it is automatically set to the maximum number for that function. If a command is received that is not understood, a "?" is returned. With absolute settings, "0" is off, 1-9999 is on. The one exception is the Power command, where 0 is off and 1 is on.

To assure the projector can process a command, wait 3 seconds before entering the next command.

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Write Command Examples							
Function	Command	Response					
Brightness	(BRT140)	Sets the brightness to 140					
Power	(PWRO)	Turns power off					
Power	(PWRI)	Turns power on					

#### **Error Conditions**

Not all commands are supported for all projectors. If an unsupported command is issued, the command will be ignored. If a command is received that is not understood, a '?' character will be returned indicating the command was not understood.

#### Limitations

The projector cannot respond to commands coming in at a high-rate. Therefore, a delay must occur between commands to ensure that the command gets properly executed. To assure the projector can process a command, wait 3 seconds before entering the next command.

The Step column refers to increasing or decreasing the menu bar position since the On-screen Display is not an exact match of values. For example, Step 2 changes the data by 2 through the CLI (Command Line Interface). The menu bar is up (or down) by 1.

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Function	Com- mand	Min	Max	De- fault	Step
Auto Power 0: disable 1: enable	APO at RW	0	I	0	
Aspect Ratio 0: Native 1: 16:9 2: 4:3	ARZ at RW	0	2	2	
Auto Source 0: disable 1: enable	ASC at RW	0	I	I	
Balance	BAL at RW	0	100	50	I
Blue Gain	BCG at RW	0	100	50	2
Brightness	BRT at RW	96	160	128	I
Blank Screen 0: black 1: blue 2: white	BSC at RW	0	2	I	
Blank 0: off 1: on	BLK at W	0	I	-1	
Ceiling 0: disable 1: enable	CEL at RW	0	1	0	
Color	CLR at RW	65	191	128	I

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unction	Com- mand	Min	Max	De- fault	Step	Function	Com- mand	Min	Max	De fai
Contrast	CON at RW	96	160	128	1	Effect	EFK at RW	0	8	7
Color Space 0: RGB 1: SMPTE240 2: REC709 3: REC601 7: Auto	CSM at RW	0	7	7		0: blank 1: mute 2: aspect ratio 3: source 4: auto image 5: freeze 6: zoom				
Green Gain	GCG at RW	0	100	50	2	7: PiP Source				
Vertical Keystone	DKC at RW	78	178	128	1	Horizontal Position	HPS at RW	def: -50	def: +50	auto
Horizontal Keystone	DKH at RW	78	178	128		Language	LAN at RW	0	11	0
Display Messages 0: disable 1: enable	DMG at RW	0	I	I	l	0 = English 1 = French 2 = German 3 = Spanish				
Power-up Source 0: computer 1 1: computer 2 2: video 1 3: video 2 4: video 3 5: computer 3	DSC at RW	0	5	0		4 = Traditional Chinese 5 = Japanese 6 = Korean 7 = Portuguese 8 = Russian 9 = Norwegian 10 = Simplified Chinese 11 = Italian				
Startup Logo 0: blank screen 1: default	DSU at RW	0	2	1		Time In Hours Last Bulb1 Lasted	LBI at R	0	32766	0
2: captured	FixYour					Time In Hours Last Bulb2 Lasted	LB2 at R	0	32766	0

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Function	Com- mand	Min	Max	De- fault	Step	Function	Com- mand	Min	Max	De- fault	Step
Time In Hours Last Bulb3 Lasted	LB3 at R	0	32766	0		Menu Navigation 0: up	NAV at W	0	4	-1	
Lamp Lit 0: not lit	LML at R	0	I			I: down 4: select					
l: lit						NND 0: disable	NND at RW	0	I	I	
Lamp Hours	LMP at R	0	65534	0	I	l: enable					
Lamp Reset 0: not reset 1: reset	LMR at RW	0	32766	0		Unit Total Time On	ONL at R	0	214748 3646	0	
Lamp Total On Time (All Bulbs)	LMT at R	0	214748 3646			Overscan 0: disable 1: enable	OVS at RW	0	1	0	
Low Power 0: disable 1: enable	LPE at RVV	0	I	0		Presets 0: presentation 1: photography	PST at RW	0	12	c: 0 v: 3	
Menu 0: disable 1: enable	MNU at RW	0	1	0		2: film 3: video 10: user 1 11: user 2					
Phase	MSS at RW	0	31	18	1	12: user 3					
Mute 0: disable 1: enable	MTE at RW	0	1	0		Power Save 0: disable 1: enable	PSV at RW	0	I	0	
Tracking	MTS at RW	def: -128	def: +128	auto	I	Power 0: disable 1: enable	PWR at RW	0	I	0	
	FixYourD	LP.con	n A			Red Gain at RW	RCG at RW	0	100	50	2

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Function	Com- mand	Min	Max	De- fault	Step
Rear 0: disable 1: enable	REA at RW	0	1	0	
Factory Reset 0: not reset 1: reset	RST at W	0	I	-1	
Sharpness 5 = Sharpest 6 = Sharper 7 = Standard 8 = Softer 9 = Softest	SHP at RW	126	130	128	I
Source 0: computer l 1: computer2 2: video l 3: video 2 4: video 3 5: computer 3	SRC at RW	0	5	0	
Screen Save 0: 5 minutes 1: 10 minutes	SSV at RW	0	5	0	I
2: 15 minutes 3: 20 minutes 4: 25 minutes 5: 30 minutes					

Function	Com- mand	Min	Max	De- fault	Step
Color Temp 0: 9300K 1: 6500K 2: 7200K 3: User	TMP at RW	0	3	2	
Tint	TNT at RW	114	142	128	I
Volume	VOL at RW	0	32	16	I
Vertical Position	VPS at RW	0	def: auto x 2	auto	I
Video Standard 0: Auto 1: NTSC 2: PAL 3: SECAM	VSU at RW	0	3	0	
IR Receiver front 0: disable 1: enable	IRF at RW	0	I	I	
IR Receiver rear 0: disable 1: enable	IRR at RW	0	I	I	
IR Receiver top 0: disable I: enable	IRT at RW	0	I	I	

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Function	Com- mand	Min	Max	De- fault	Step
PiP Size Selection 0: off 1: small 2: medium 3: large	PSS at RW	0	3	0	
PiP Input 3: video 2 I: video 3	PIN at RW	3	4	3	
PiP Position 0: lower right 1: upper right 2: lower left 3: lower right 10: user	PPO at RW	0	4	2	



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#### Limited Warranty

InFocus Corporation ("InFocus") warrants that the Projector ("Product") purchased from InFocus, an InFocus distributor, or an InFocus reseller will conform to the manufacturer's specifications and be free from defects in material or workmanship for the Warranty period provided below. InFocus does not warrant that the Product will meet the specific requirements of the end-user customer.

If the Product, which is the subject of this Limited Warranty, is defective in material or workmanship during the warranty period, InFocus, <u>at its option</u>, will REPAIR or REPLACE the Product.

All exchanged parts and products replaced under this Warranty will become property of InFocus. <u>InFocus' sole obligation</u> is to supply (or pay for) all labor necessary to repair the Product found to be defective within the Warranty period and to repair or replace defective parts with new parts or, <u>at the option of InFocus</u>, serviceable used parts that are equivalent or superior to new parts performance.

**Limited Warranty Alternatives:** Subject to the Limitations, Exclusions and Disclaimers, InFocus Warrants as follows:

- **<u>2 Year Parts and Labor Product Warranty</u>** From the date of purchase, InFocus warrants that the Product will conform to the manufacturers' specifications and be free from defects in material or workmanship for a period of two (2) years.
- <u>I Year Parts Only Accessory Warranty</u> From the date of purchase, InFocus warrants that the customer replaceable and accessory products will conform to the manufacturers' specifications and be free from defects in material or workmanship for a period of one (1) year.

• **90 Day/500 Hour Replacement Lamp Warranty** - Lamp Products purchased in projectors or separately as replacements after the original projector purchase is Ninety (90) days or 500 hours, whichever comes first. During the Warranty period for the Product, InFocus warrants that Replacement lamps, which are purchased at the time of projector purchase, will have a 90-day or 500 hour warranty, whichever comes first, from the date

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the spare lamp is put into us

#### WARRANTY LIMITATION AND EXCLUSION

THIS WARRANTY SETS FORTH INFOCUS' MAXIMUM LIABILITY FOR ITS PRODUCT. THIS WARRANTY EXTENDS ONLY TO PRODUCTS PURCHASED FROM INFOCUS OR AN INFOCUS AUTHORIZED RESELLER. InFocus shall have no further obligation under the foregoing Limited Warranty if the Product has been damaged due to abuse, misuse, neglect, smoke exposure (cigarette or otherwise), accident, unusual physical or electrical stress, unauthorized modifications (including use of an unauthorized mount), tampering, alterations, or service other than by InFocus or its authorized agents, causes other than from ordinary use or failure to properly use the Product in the application for which said Product was intended.

This Warranty excludes Product or accessory cleaning, repair, or replacement of plastics due to cosmetic damage and damage as a result of normal wear. Product repair outside of the terms of the Limited Warranty will be on a time and materials basis. Prolonged Product "demonstration" causes unusual Product wear and is not considered normal use under the terms of this Limited Warranty.

The Accessory Warranty covers the accessory item only and excludes normal wear. The Lamp Product Warranty excludes expected lamp degradation.

Remanufactured Products and Software Products are exempt from the foregoing Limited Warranty. Please refer to the appropriate Remanufactured Product Limited Warranty or Software Product Limited Warranty for applicable Warranty information.

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THE WARRANTY PRINTED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUD-ING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABIL-ITY AND FITNESS FOR PARTICULAR PURPOSE ARE DISCLAIMED. <u>THERE ARE</u> NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE <u>HEREOF</u> AND THE FOREGOING WARRANTY SHALL NOT BE EXTENDED, ALTERED OR VARIED EXCEPT BY WRITTEN INSTRUMENT SIGNED BY INFO-CUS. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY MAY LAST, SO SUCH LIMITATIONS MAY NOT APPLY TO YOU.

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#### Limited Warranty Period

The Limited Warranty period commences on the date of purchase by the end-user customer for both the 2 year Product Warranty and the 1 year Accessory Warranty. These Limited Warranty provisions shall apply only to the end-user purchaser (first person or entity that purchased a new Product for personal or business use and not for the purpose of distribution or resale).

#### To Be Eligible For Limited Warranty Coverage

Any person exercising a claim under this Limited Warranty must establish to the satisfaction of InFocus both the date of purchase and that the Product was purchased new. The sales receipt or invoice, showing the date of purchase of the Product or Accessory is the proof of the date of purchase.

#### To Obtain Warranty Service

During the Limited Warranty period, to exercise this Limited Warranty, the purchaser must first contact 1) InFocus, 2) a service facility authorized by InFocus or 3) the place of original purchase.

InFocus Customer Service - 1-800-799-9911 or techsupport@infocus.com

For Warranty service, the purchaser will be advised to return or deliver the defective Product freight and all fees prepaid, to an InFocus Service Center or to a service facility authorized by InFocus. When returning Product to InFocus, a Return Material Authorization Number (RMA #) is required and must be clearly displayed on the outside of the shipping carton or a similar package affording an equal degree of protection. InFocus or the service facility authorized by InFocus will return the repaired/ replaced Product freight prepaid to the purchaser.

Products returned for Warranty service must be accompanied by a written letter that: (i) explains the problem; (ii) provides proof of date of purchase; (iii) provides the dealer's name; and (iv) provides the model and serial number of the Product. Upon request of InFocus Corporation or an InFocus authorized repair center receiving the Product, proof of legal importation must accompany the warranty repair Product, otherwise the Product must be returned to the place of original purchase, to the manufacturer (Purchaser must bear all tax, duty and freight), or the Purchaser must bear charges for the warranty repair.

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No repair or replacement of Product or part thereof shall extend the Limited Warranty period as to the entire Product. Warranty on the repair part and workmanship shall only be effective for a period of ninety (90) days following the repair or replacement of that part or the remaining period of the Product Limited Warranty whichever is greater.

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**<u>Governing Law</u>** - Any action, regardless of form, arising out of the agreement to purchase the product is governed by Oregon law.

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WARNING: This product contains chemicals, including lead, known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

WARNING: This product contains a lamp which contains mercury. Dispose of it as required by local ordinances and regulations.

#### Agency Approvals

UL, CUL, TUV, GOST Other specific Country Approvals may apply, please see product certification label.

## IF YOU NEED ASSISTANCE...

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 Corporation in The Netherlands at (31) 20 579 2820.

IN ASIA, call InFocus Corporation in Singapore at (65) 6334-9005.



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## call InFocus Corporation Customer Service directly at 1-800-799-9911.

Many resources are available on our website at www.proxima.com. Here's a sample:

- product data sheet
- · technical specifications, an interactive image size calculator, laptop activation commands, connector pin outs, command line interface (CLI) and a glossary
- online product registration



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# **proxima**

## DP8400x/ **DP8500x**



010-0508-01

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# \_**proxim**a **DP8400x/ DP8500x**

# **User's Guide**

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#### High-performance Installation—Innovative Ease of Use









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