

ScreenPlay™
7200



www.htrgroup.com



User's Guide

[English • Français • Deutsch • Español • Italiano • Norsk]

ScreenPlay™
by InFocus®

ENGLISH

Declaration of Conformity

Manufacturer: InFocus Corporation, 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 ScreenPlay 7200 projector conforms 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, 2002

Australian Certification C-tick mark



Trademarks

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FCC Warning

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

--Reorient or relocate the receiving antenna.

--Increase the separation between the equipment and receiver.

--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by InFocus Corporation can void the user's authority to operate the equipment.

Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Safety Certifications

UL, CUL, TÜV, NOM, IRAM, GOST, CCC, MIC, S-JQA

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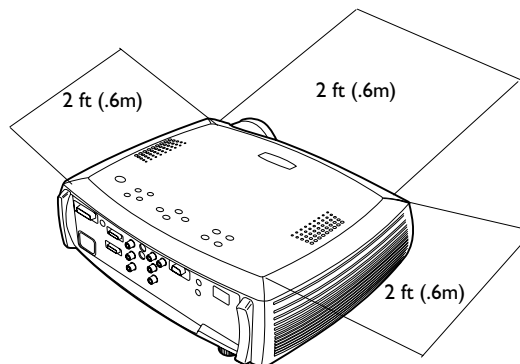
For complete details on connecting and operating the projector, refer to this User's Guide. Electronic versions of this User's Guide in multiple languages are available on our website at www.infocushome.com/support.

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.

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 left and right sides of the projector, as well as across the front 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 side and in the front of the projector



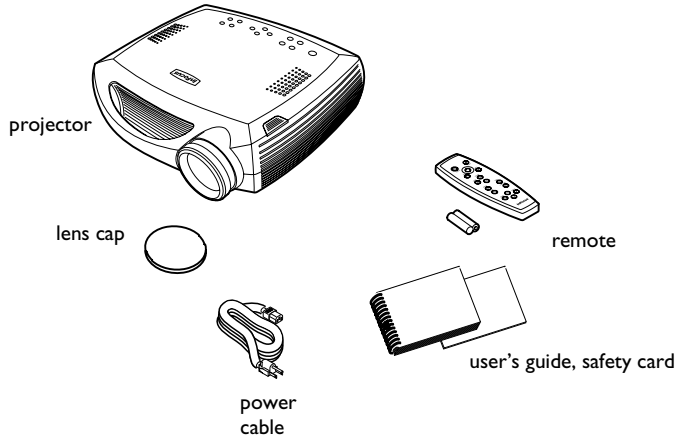
Introduction

Congratulations and thank you for your excellent choice of a superior digital image projection device. Your new ScreenPlay™ 7200 projector from InFocus® is specifically designed for home cinema applications. The ScreenPlay 7200 sets the standard for high-definition digital perfection, featuring true High Definition 1280x720 resolution using the latest DLP™ technology and new DCDi video processing from Faroudja™. Calibrated to D65 color mastering standards, the ScreenPlay 7200 reproduces colors and details the way the director intended. Whether you are watching movies or High Definition broadcasts or playing the latest video game, you will enjoy breathtaking image quality.

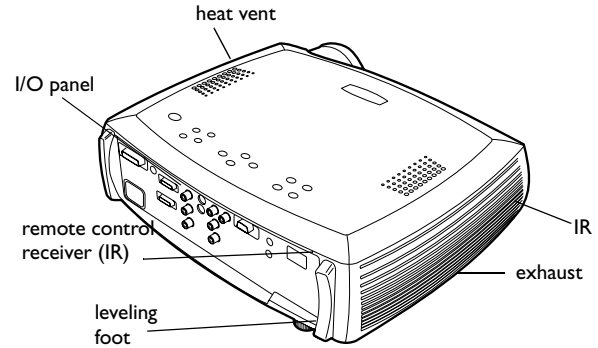
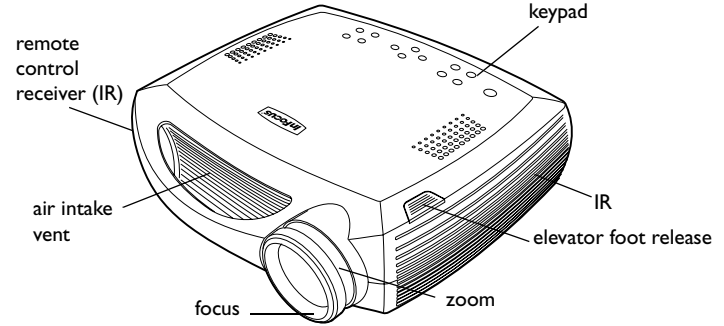
Online Registration

Register your projector online at www.infocus.com/service/register to receive product updates, announcements, and registration incentives.

Included items



Projector components and features



Connector Panel

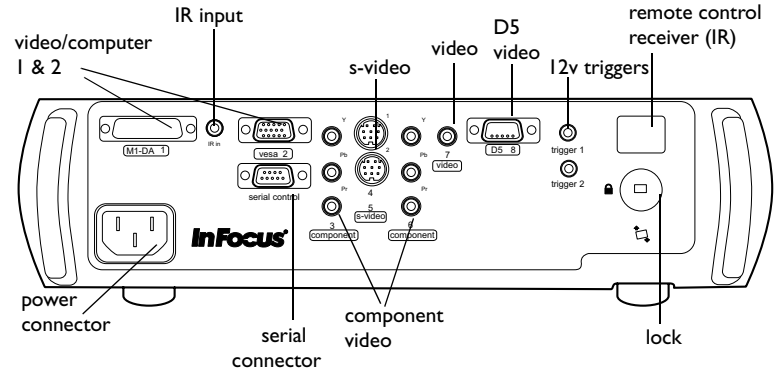
The projector provides eight discreet video connectors:

- two component RCA
- two S-video
- one composite RCA
- one M1-DA (HD, DVI, and computer)
- one VESA (HD, HD component, and computer)
- one component D5

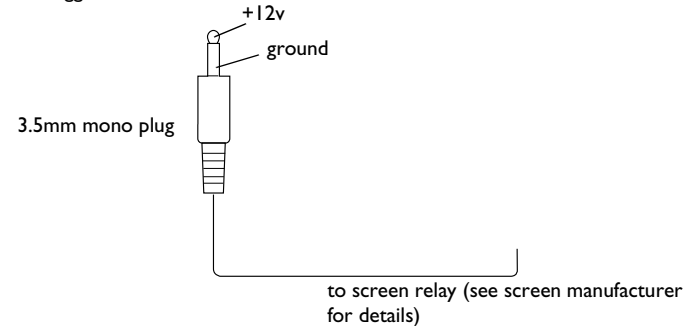
It also has a mini-jack input for a Niles or Xantech-compatible IR repeater and an RS-232 connector for serial control. The Command Line Interface (CLI) specifications and commands are listed in the Appendix starting on page 37.

Two 3.5 mm mini-jack triggers provide 12 volt current. Trigger 1 provides a constant output while the projector is on. If you connect your projection screen to Trigger 1, when you turn on the projector the screen will move down; when you turn the projector off, the screen will return to the storage position. Trigger 2 provides a 4:3 aspect trigger. When you select 4:3 in the Aspect Ratio menu or from the **Resize** button on the remote, a 12v signal will be sent after a five second delay. Use this trigger for screens with 4:3 aspect curtains. When you switch back to 16:9 format, the curtains open to reveal the entire screen.

For details on each connector type and their inputs, see page 35.



screen trigger connection



Positioning the projector

There are a number of factors to consider when determining where to set up the projector, including 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 guidelines.

1 Position the projector on a flat surface at a right angle to the screen.

The projector must be within 10 feet (3 m) of your power source. To ensure adequate cable access, place the projector at least 6 inches (0.15m) from a wall or other objects. Place the projector at least 5.6 feet (1.7 m) from the projection screen.

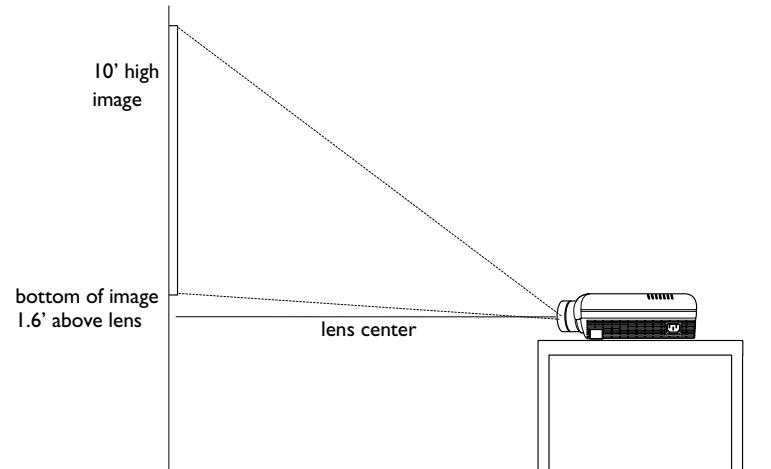
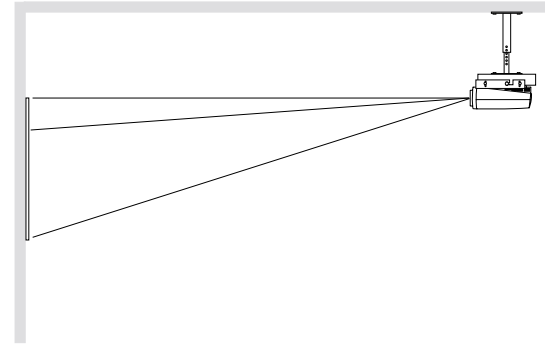
If you install the projector on the ceiling, refer to the installation guide that comes with the Ceiling Mount Kit for more information. To turn the image upside down, see page 28. InFocus recommends use of an authorized InFocus ceiling mount. The Ceiling Mount Kit is sold separately, see page 33.

2 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 more information about projected image sizes, see page 34.

The image exits the projector at a given angle. This image offset is 116%. This means that if you have an image 10' high, the bottom of the image will be 1.6' above the center of the lens.

Go to www.infocushome.com/support for a complete image size calculator.

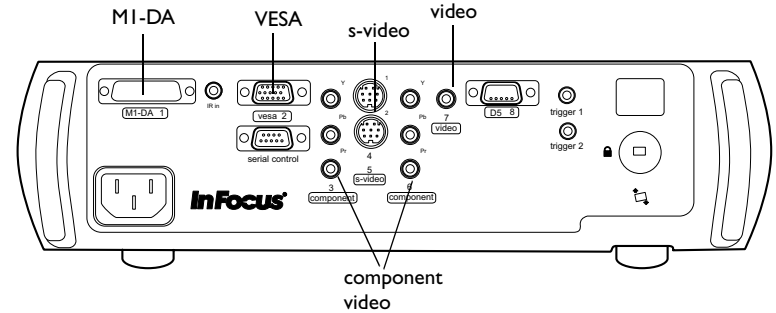


Video connections

You can connect VCRs, DVD players, camcorders, digital cameras, video games, HDTV receivers, and TV tuners to the projector. (You cannot directly connect the coaxial cable that enters your house from a cable or satellite company; the signal must pass through a tuner first. Examples of tuners are digital cable boxes, VCRs, digital video recorders, and satellite TV boxes. Basically, any device that can change channels is considered a tuner.) Audio must be provided by your own speakers, as the projector has no separate audio controls. If there is more than one output, select the highest quality one. DVI Component video and RGB (M1, HD15) have the best quality, followed by S-video, and then composite video.

Table 1: Video connections

Input signal	Connector	Connector label on projector
Standard Broadcast TV (not HDTV), via cable, digital cable, satellite TV, DirectTV	Component video S-video Composite video	Component 3, 6 S-video 4, 5 Video 7
HDTV	Component video VESA DVI	Component 3, 6 VESA 2 M1-DA 1
DVD	Component video S-video Composite video	Component 3, 6 S-video 4, 5 Video 7
VCR	Composite video S-video Component video	Video 7 S-video 4, 5 Component 3, 6
Video Camera	Composite video S-video	Video 7 S-video 4, 5
Video Game	VESA Composite video S-video Component video	VESA 2 Video 7 S-video 4, 5 Component 3, 6



For a complete list of compatible sources, see page 35 of the Appendix.

Connecting a video device

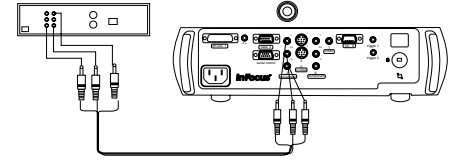
If your video device has more than one output, select the highest quality one. DVI video has the best quality, followed by Component video, S-video, and then composite video.

If the video device uses component cable connectors, plug the cable's green connectors into the green component-out connector on the video device and into the 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.

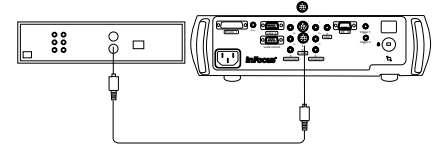
If the video device uses a round, four-prong S-video connector, plug an S-video cable into the S-video connector on the video device and into the **S-video** connector on the projector.

If the video device uses a yellow composite video connector, plug a composite video cable's yellow connector into the video-out connector on the video device. Plug the other yellow connector into the yellow **Video** connector on the projector.

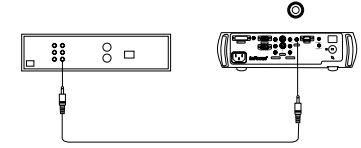
connect component cable



connect S-video cable

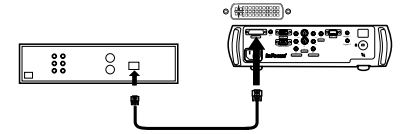


connect composite video cable



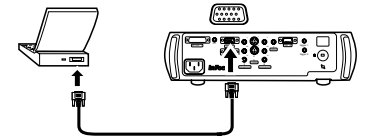
If the video device uses a DVI connector, plug an M1-D cable into the video-out connector on the video device. Plug the other connector into the **MI-DA** connector on the projector.

connect M1-D cable



If the video device uses a VESA connector, plug a VESA cable into the video-out connector on the video device. Plug the other connector into the **VESA** connector on the projector.

connect VESA cable

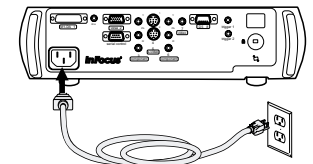


Connecting the power cable

Connect the power cable to the connector on the back of the projector and to your electrical outlet. The Power LED on the keypad turns solid green.

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

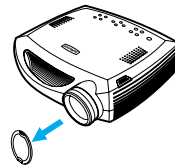
connect power cable



Displaying a video image

Remove the lens cap.

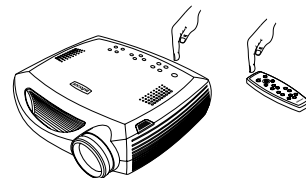
remove lens cap



Press the **Power** button on the top of the projector.

The projector chimes if the chime feature is enabled (page 29). The LED flashes green and the fans start to run. When the lamp comes on, the startup screen displays and the LED is steady green. It can take a minute for the image to achieve full brightness.

press Power

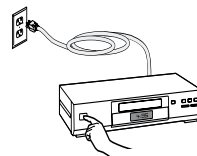


? No startup screen? Get help on page 11.

Plug in and turn on the video device.

An image from the video device should appear on the projection screen. If it doesn't, press the **Source** button on the keypad.

turn on video device



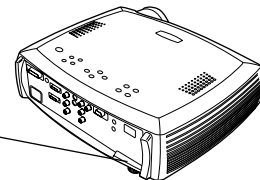
Adjust the height of the projector by pressing the release button to extend the elevator foot. Rotate the leveling foot, if necessary.

adjust height

elevator
foot

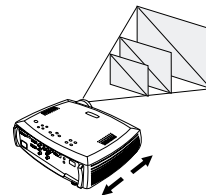


rotate
leveling
foot



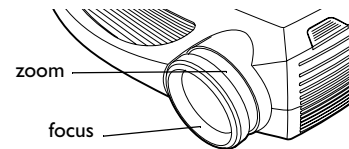
Position the projector the desired distance from the screen at a 90 degree angle to the screen. See page 34 for a table listing screen projected image sizes and distances to the screen.

adjust distance



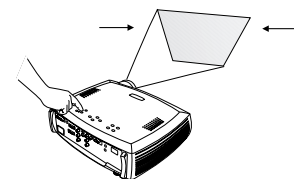
Adjust the zoom or focus rings by rotating them until the desired image size and sharpness are produced.

adjust zoom and focus



If the image is not square, adjust the keystone using the buttons on the keypad. Press the upper **Keystone** button to reduce the width of the upper portion of the image, and press the lower **Keystone** button to reduce the width of the lower portion.

adjust keystone



The **Contrast**, **Brightness**, **Color**, and **Tint** are factory calibrated to D65 colors, but you can adjust these settings in the Picture menu if necessary.

See page 21 for help with the menus.

adjust Picture menu

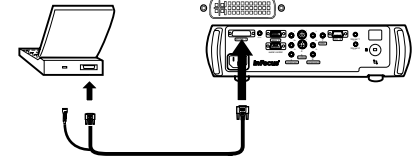
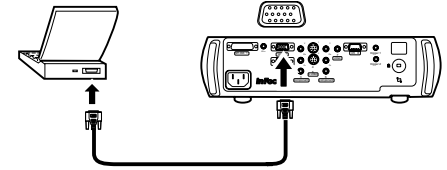


•• Picture	
Exit	
Keystone	50
Contrast	50
Brightness	50
Color	50
Tint	50
Aspect Ratio	▶
Presets	▶
Advanced	▶

Connecting a computer

Connect either a VESA cable or M1 cable into the appropriate 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.

connect computer cable

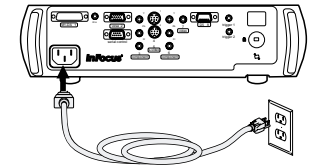


Connect the power cable to the connector on the back of the projector and to your electrical outlet.

The Power LED on the projector's keypad turns solid green.

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

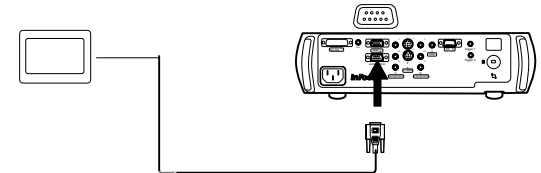
connect power cable



Turn on the projector, then your computer.

You can control the projector from an LCD control panel or computer by connecting an RS-232 cable to the projector's **Serial** connector. Specific RS-232 commands can be found in the Appendix starting on page 38 and in the Service and Support section of our website at www.infocushome.com/support.

connect RS-232 cable



Shutting down the projector

Power Save

The projector has a Power Save feature in the System menu 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.

Turning off the projector

To turn off the projector, press the **Power** button. The lamp turns off and the LED blinks green for about one minute while the fans continue to run to cool the lamp. When the lamp has cooled, the LED lights green and the fans stop. Unplug the power cable to completely power off the projector.

Troubleshooting your setup

If your image appears correctly on the screen, skip to the next section (page 19). If it does not, troubleshoot the setup.

The LED on top of the projector's keypad indicates the state of the projector and can help you troubleshoot.

Table 2: LED behavior and meaning

LED color/behavior	Meaning
solid green	The projector is plugged in, or the projector has been turned on and the software has initialized. The projector has been turned off and the fans have stopped.
blinking green	The Power button has been pressed and the software is initializing, or the projector is powering down and the fans are running to cool the lamp.
blinking red The projector will not start up if the LED is blinking red. You must correct the problem, disconnect and reconnect the power cable, then power on the projector. See page 34 for more information on blinking red LEDs.	A fan (blinks 4 times) or lamp (blinks 3 times) failure has occurred. Turn off the projector and wait one minute, then turn the projector on again. Also check for a blocked vent or a stopped fan (blinks 5 times).
solid red	An unidentifiable error: please contact Technical Support.

The following table shows some potential 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.

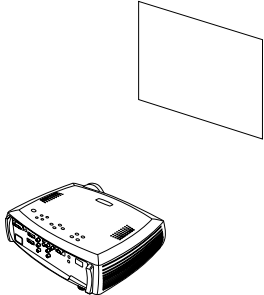
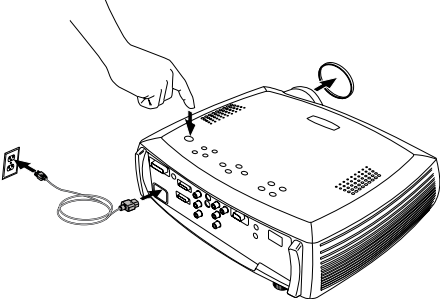
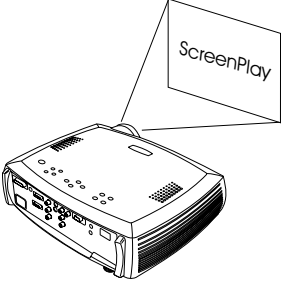
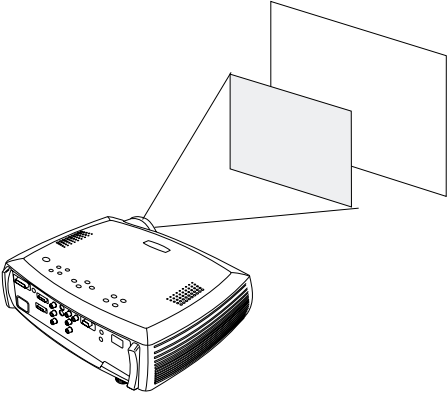
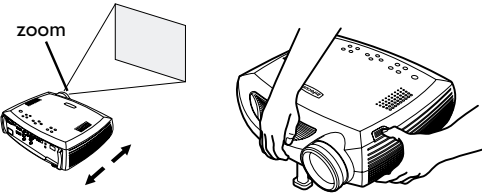
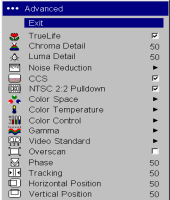
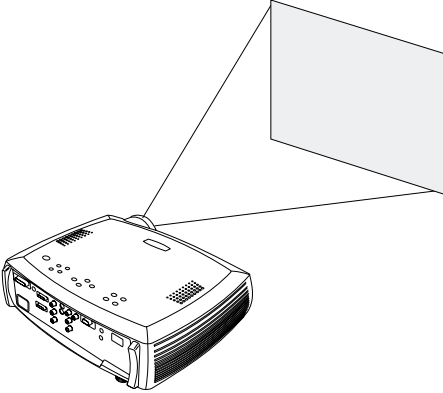
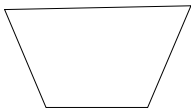
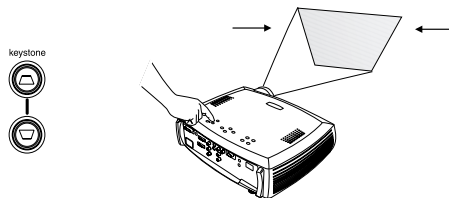
Problem	Solution	Result																																				
<p>No startup screen</p> 	<p>Plug power cable in and remove lens cap press Power button</p> 	<p>Correct image</p> 																																				
<p>Image not centered on screen</p> 	<p>Move projector, adjust zoom, adjust height</p>  <p>Adjust horizontal or vertical position in Picture>Advanced menu</p>  <table border="1"> <thead> <tr> <th colspan="2">*** Advanced</th> </tr> </thead> <tbody> <tr><td>Exit</td><td></td></tr> <tr><td>TruLife</td><td>50</td></tr> <tr><td>Chroma Detail</td><td>50</td></tr> <tr><td>Luma Detail</td><td>50</td></tr> <tr><td>Noise Reduction</td><td></td></tr> <tr><td>CCS</td><td></td></tr> <tr><td>NTSC 2.2 Pulldown</td><td></td></tr> <tr><td>Color Space</td><td></td></tr> <tr><td>Color Temperature</td><td></td></tr> <tr><td>Color Control</td><td></td></tr> <tr><td>Gamma</td><td></td></tr> <tr><td>Video Standard</td><td></td></tr> <tr><td>OverScan</td><td></td></tr> <tr><td>Phase</td><td>50</td></tr> <tr><td>Tracking</td><td>50</td></tr> <tr><td>Horizontal Position</td><td>50</td></tr> <tr><td>Vertical Position</td><td>50</td></tr> </tbody> </table>	*** Advanced		Exit		TruLife	50	Chroma Detail	50	Luma Detail	50	Noise Reduction		CCS		NTSC 2.2 Pulldown		Color Space		Color Temperature		Color Control		Gamma		Video Standard		OverScan		Phase	50	Tracking	50	Horizontal Position	50	Vertical Position	50	<p>Correct image</p> 
*** Advanced																																						
Exit																																						
TruLife	50																																					
Chroma Detail	50																																					
Luma Detail	50																																					
Noise Reduction																																						
CCS																																						
NTSC 2.2 Pulldown																																						
Color Space																																						
Color Temperature																																						
Color Control																																						
Gamma																																						
Video Standard																																						
OverScan																																						
Phase	50																																					
Tracking	50																																					
Horizontal Position	50																																					
Vertical Position	50																																					

Image not square



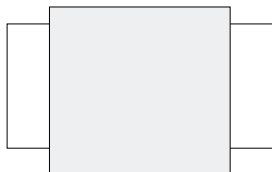
Adjust keystone on keypad



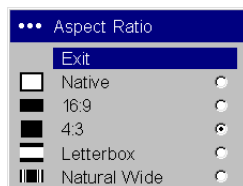
Square image



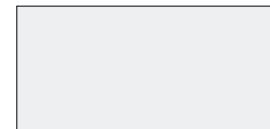
Image does not fit 16:9 screen



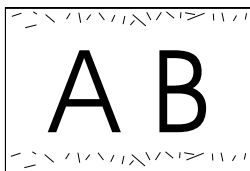
**Change aspect ratio to 16:9 in
Picture>Aspect ratio menu**



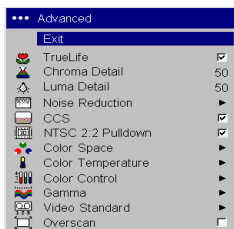
Correct image



Edges of image distorted



**Turn Overscan on in the Picture>Advanced
menu**



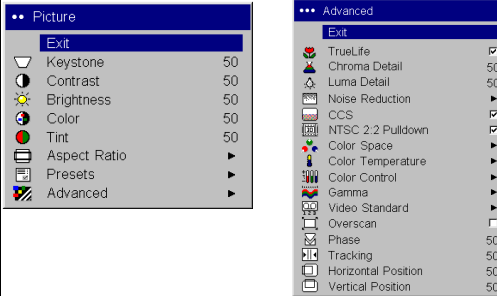
Correct image



1. Projected colors don't match source
2. Colors are washed out or too deep
3. Image from component source appears greenish

~~COLOR~~

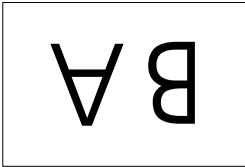
1. Adjust color, tint, color temperature, brightness, or contrast in the menus.
2. Pick another gamma setting
3. Pick another color space



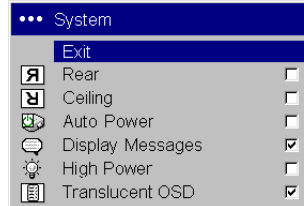
Correct image

COLOR

Image upside down



Turn off Ceiling in Settings>System menu



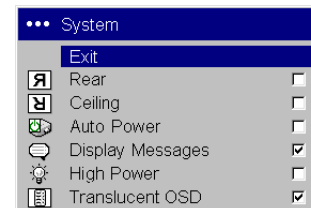
Correct image



Image reversed left to right



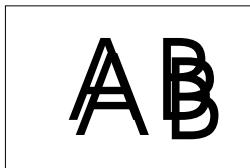
Turn off Rear in Settings>System menu



Correct image



Video image “torn” and fragmented



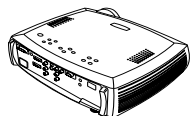
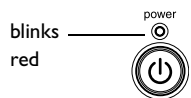
**Change Video Standard in
Picture>Advanced menu**



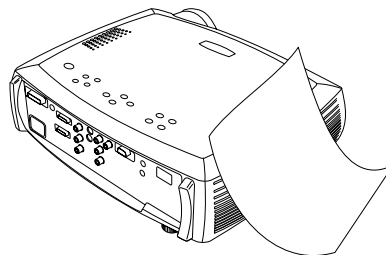
Correct image



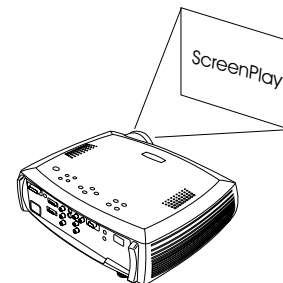
Lamp won't turn on, LED blinking red (page 11)



**Make sure vents aren't blocked; allow
projector to cool for one minute**

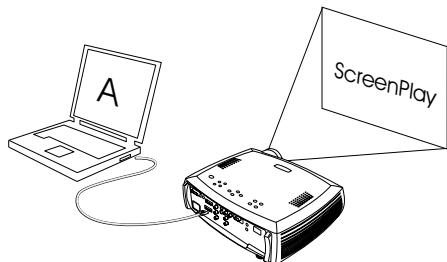


**Unplug projector; wait one minute; plug in
projector and turn it on: lamp lights**

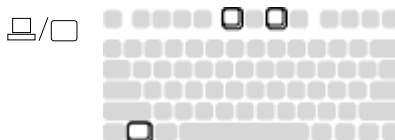


Computer-specific troubleshooting

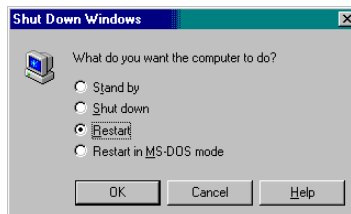
Only startup screen appears



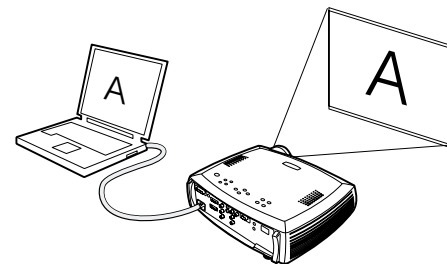
Press the Source button 
Activate laptop's external port



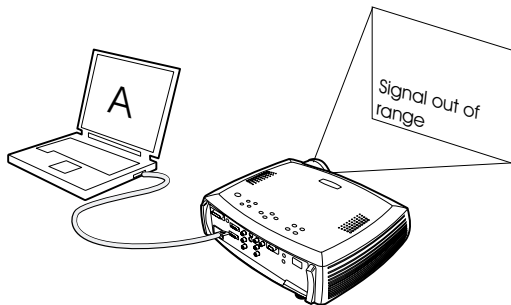
or restart laptop



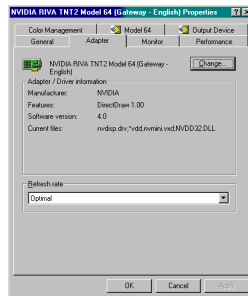
Computer image projected



No computer image, just the words "Signal out of range"



Adjust computer refresh rate in Control Panel>Display>Settings>Advanced>Adapter (location varies by operating system)



Computer image projected

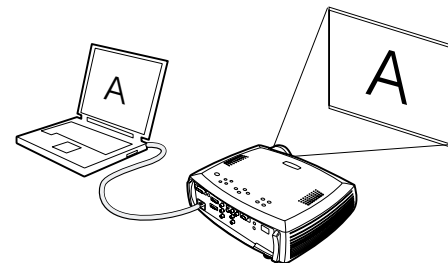
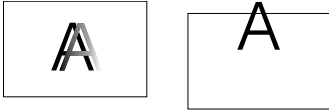


Image fuzzy or cropped



Set your computer's display resolution to the native resolution of the projector (Start>Settings>Control Panel>Display>Settings tab, select 1280x720)

For a laptop, disable laptop monitor or turn-on dual-display mode

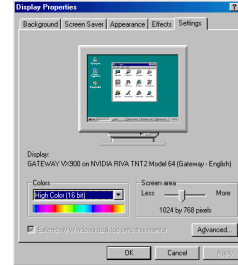


Image clear and not cropped



Still having problems?

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**.

In Asia, call InFocus in Singapore at **(65) 6334-9005**.

This product is backed by a limited two-year warranty. A two-year ProXchange service 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 with all accessories for shipping. An optional ATA shipping case is available for purchase that provides adequate protection for shipping. Please insure your shipment for its full value.

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 8) and off (page 8).

Menu—opens the on-screen menus (page 21).

Select—confirms choices made in the menus (page 21).

Up/down arrows—navigates to and adjusts settings in the menus (page 21).

Auto image—resets the projector to the source.

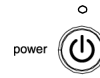
Presets—cycles through the 3 available user preset settings (page 24).

Keystone—adjusts squareness of the image (page 11).

Brightness—adjusts intensity of the image (page 22).

Resize—changes the aspect ratio (page 22).

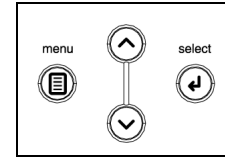
Source—changes the active source (page 28).



auto image



keystone



menu navigation buttons

brightness



source



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 video device or computer). The range of optimum operation is 0 to 30 feet (9.14m).

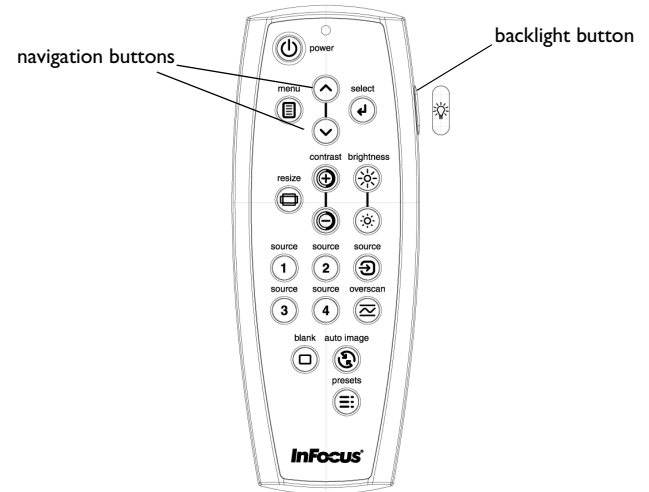
Press the remote's **Menu** button to open the projector's menu system. Use the arrow buttons to navigate, and the **Select** button to select features and adjust values in the menus. See page 21 for more info on the menus.

The remote also has:

- **Power** button to turn the projector on and off (see page 11 for shut-down info)
- backlight button to light the remote's buttons in the dark
- **Brightness** and **Contrast** buttons to adjust the image
- **Blank** button to display a blank screen instead of the current image (to change the color of the screen, see page 29)
- **Source** buttons to switch among sources (to assign a particular source to a source button, see page 28) and a source toggle
- **Resize** button to change the Aspect Ratio (see page 22)
- **Auto Image** button to resynch the projector to the source
- **Preset** button to restore stored settings (see page 24)
- **Overscan** button to remove noise in a video image (page 27)

Troubleshooting the remote

- Make sure the batteries are installed in the proper orientation and are not dead.
- Make sure you're pointing the remote at the projector or the screen, not at the video device or the computer, and are within the remote range of 30 feet (9.14m).



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 21.

- 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 in the menus, or press the **Resize** button on the remote to cycle through the options. See page 22.
- Adjust the Keystone, Contrast, Brightness, Color, or Tint in the Picture menu. See page 22.
- Select a different Color Temperature or use the Color Control to adjust the gain and offset of the red, green, and blue color. See page 26.
- Select a specific Color Space or Gamma. See page 26.
- Select a different Video Standard. Auto tries to determine the standard of the incoming video. Select a different standard if necessary. See page 26.
- Turn overscan on to remove noise around the video image. See page 27.
- Fine tune component inputs using the TrueLife™ adjustments. See page 25.
- Choose High Power to maximize the light output. See page 28.
- Make sure your DVD player is set for a 16:9 television. See your DVD player's user's guide for instructions.

Customizing the projector

You can customize the projector for your specific setup and needs. See page 28 to page 30 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 **Settings>System** menu.
- Turn the projector's display messages and power-on chime on and off.
- Turn on power saving features.
- Specify blank screen colors and startup logos. Make the menus translucent.
- Specify the menu language.

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 Exit, 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).

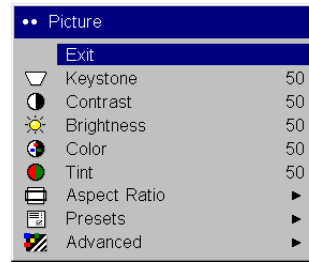
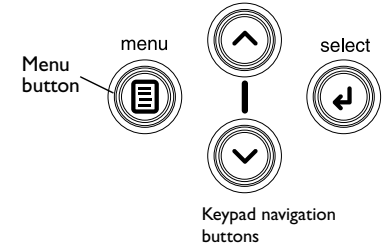
The menus are grouped by usage:

- 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.

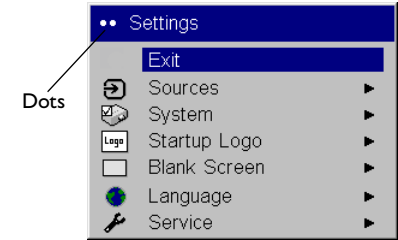
Certain menu items may be hidden until a particular source is connected. For example, Tint is only available for NTSC video sources and will be hidden when other sources are active. Other menu items may be grayed out when they are not available. For example, Brightness is grayed out until an image is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



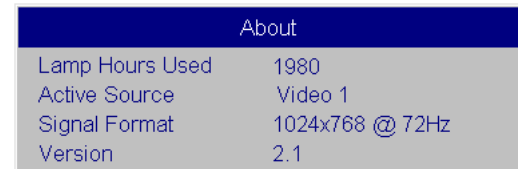
Main menu



Picture menu



Settings menu



About menu

Picture menu

To adjust the following five settings, highlight the setting, press **Select**, use the up and down arrows to adjust the values, then press select to confirm the changes. All menu defaults are listed in a table starting on page 38.

Keystone: adjusts the image vertically and makes a squarer image. You can also adjust keystone from the keypad.

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. You can also adjust brightness from the keypad.

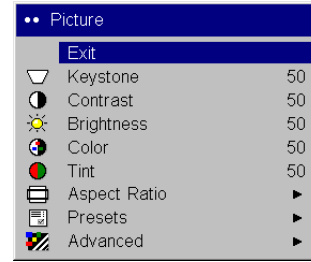
Color: (video sources only) adjusts a video image from black and white to fully saturated color.

Tint: (NTSC video sources only) adjusts the red-green color balance in the image.

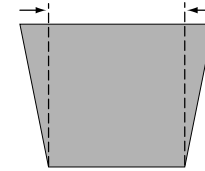
Aspect Ratio: Aspect ratio is the ratio of the image width to image height. TV screens are usually 1.33:1, also known as 4:3. HDTV and most DVDs are 1.78:1, or 16:9. You can choose Native, 4:3, 16:9, Letterbox, or Natural Wide. The default is 16:9. The goal is to show the most detail on the screen while preserving the ratio of width to height. The native resolution of the projector is 1280x720. Use Native, 4:3 or Natural Wide for 4:3 input sources; use Native, 16:9 or Letterbox for 16:9 input. Pressing the **Resize** button on the remote cycles through these options.

Native: this mode bypasses the internal scaler, displaying the image with no resizing.

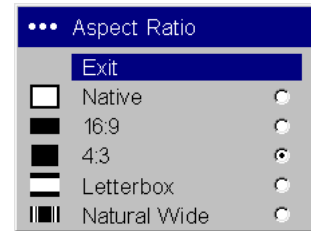
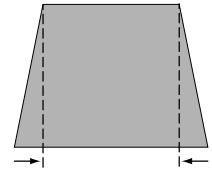
Since the native resolution is 1280x720 and 4x3 video images are approximately 640x480, 4x3 images will always be smaller than the display and will be centered in the display. Computer images 1024x768 or smaller will also be centered in the display. If a 16x9 video source or a 1280x1024 or larger computer source is viewed, it will display up to 1280 pixels and 720 lines from the center of the input.



increasing keystone



decreasing keystone



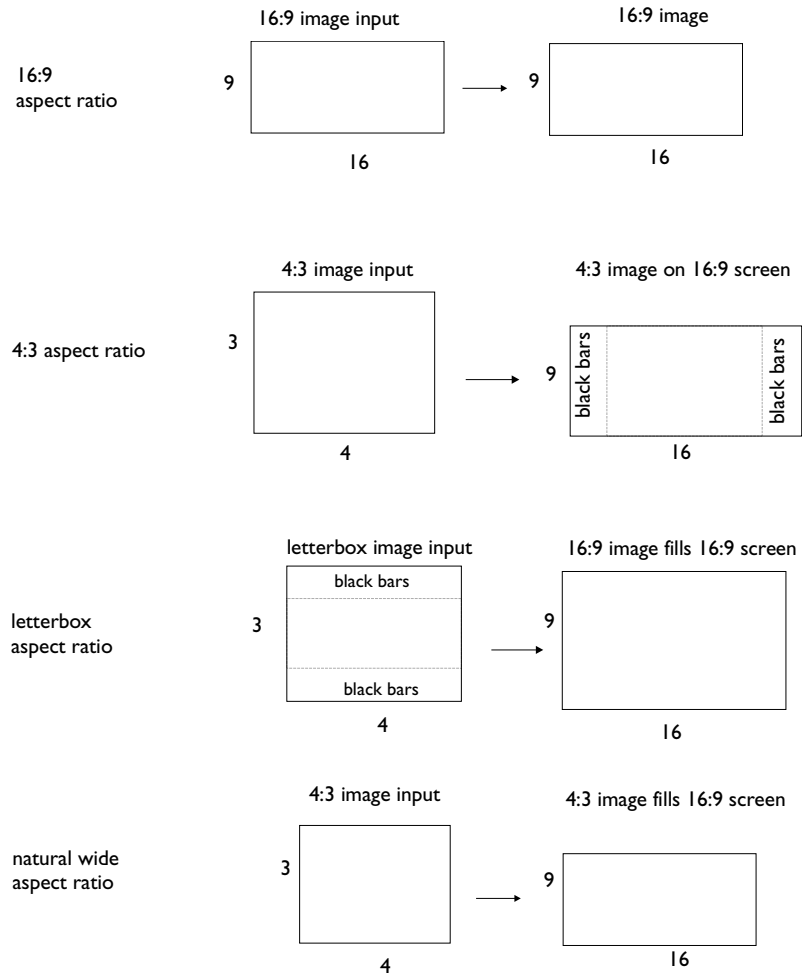
Aspect ratio

16:9: the default is **16:9**, which preserves the 16:9 aspect ratio and is designed to be used with content that is Enhanced for Widescreen TVs.

4:3: resizes the image from its original version to fit a standard 4:3 aspect ratio screen. If you have a 4:3 source on a 16:9 screen, the image is placed in a 16:9 space, so black bars appear at the sides of the image.

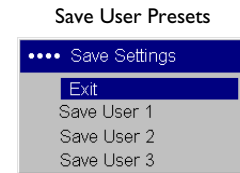
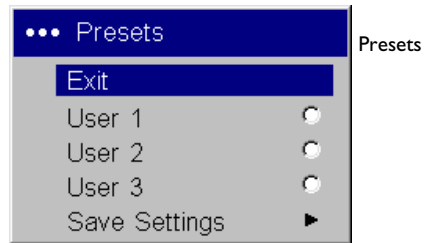
Letterbox: preserves the 16:9 aspect ratio. If you have a 16:9 source and screen, the image fills the screen. If your source is letterboxed, the image expanded to fill the screen.

Natural Wide: this mode stretches a 4:3 image to fill the entire 16:9 screen. The center two-thirds of the image is unchanged; the edges of the image are stretched.



Presets: This allows you to customize settings and save the settings to be restored later. To restore the factory default settings, choose Factory Reset in the **Settings>Service** menu.

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



Advanced settings

TrueLife: This option refers to Faroudja's TrueLife processing of the image. All standard definition interlaced video signals (composite, S-video and component) are routed through this processor. Extended and High Definition progressive component sources are not routed through this processor by default. You can turn TrueLife on to route these signals through the processor and then adjust the following 2 options:

Chroma Detail: This adjusts the color sharpness.

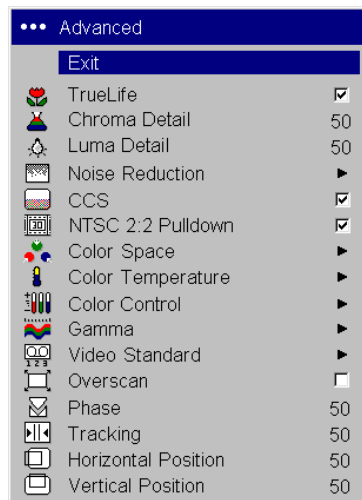
Luma Detail: This adjusts the sharpness.

Noise Reduction: adjusts signal noise reduction. Choose Off to have no noise reduction, choose Auto to have the software determine the amount of noise reduction, or choose Manual and adjust the Level.

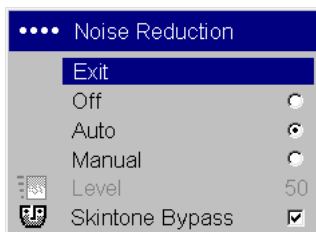
Skintone Bypass prevents the noise reduction processing from being applied to skin tones. Images of people often look better with less processing. Available when Auto or Manual are selected.

CCS: (Cross Color Suppression) processes the signal to remove any color information from the luma portion of the signal. It is On for all composite signals, Off for all component signals, and can be turned on or off for all S-video signals.

NTSC 2:2 Pulldown: Turn this feature on to correctly display NTSC signals that were created at 30 frames/second (instead of the standard 24 frames/second).

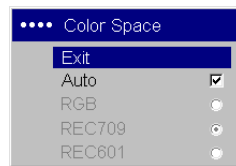


Advanced



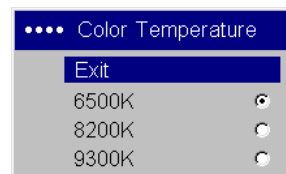
Noise reduction

Color Space: This option applies to computer and HDTV sources (it won't appear in the menu for video sources). It allows you to select a color space that has been specifically tuned for the video input. 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 REC709 for component 1080i or 720p sources, or choose REC601 for component 480p or 576p sources.



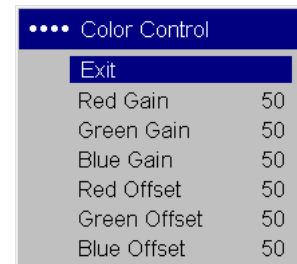
Color Space

Color Temperature: changes the intensity of the colors. Select a listed value.



Color Temperature

Color Control: allows you to individually adjust the gain (relative warmth of the color) and the offset (the amount of black in the color) of the red, green, and blue colors.



Color Control

Gamma: Gamma tables contain preset intensity configurations optimized for the input source. You can select a gamma table that has been specifically tuned for either film, video, Bright Room, or PC input. (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.)



Gamma

NOTE: Your viewing preferences may vary. Cycle through the gamma options and pick the one you like the best.

Video Standard: When it is set to Auto, the projector attempts to pick the video standard automatically 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.



Video Standard

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

The following 4 options are for computer or HDTV sources only.

Phase: adjusts the phase of the video signal's digital conversion.

Tracking: adjusts the frequency of the video signal's digital conversion.

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

Settings menu

Sources: allows you to assign a particular input to a specific source key on the remote and enables or disables Autosource. When Autosource is not checked, the projector defaults to the last-used source. If no source is found, a blank screen displays. When Autosource is checked, the projector checks the last-used source first at power up. If no signal is present, the projector checks the sources in order until a source is found or until power down.

You can use the Source Enable feature to eliminate certain sources from this search, which will speed the search. By default, the check boxes for all sources are checked. Uncheck a source's box to eliminate it from the search.

System

All options in this menu toggle between on and off.

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

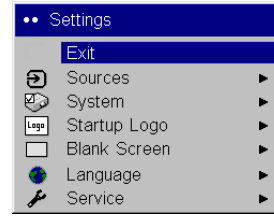
Ceiling: turns the image upside down for ceiling-mounted projection.

NOTE: It is recommended that all final image adjustments in Ceiling mode are made once the unit has fully warmed up (approximately 20 minutes).

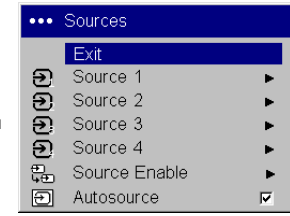
Auto Power: When Auto Power is checked, the projector automatically goes into the startup state after the projector receives power. This allows control of ceiling mounted projectors with a wall power switch.

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

High Power: Turn this on to increase the light output of the lamp. This also shortens lamp life and increases fan noise.



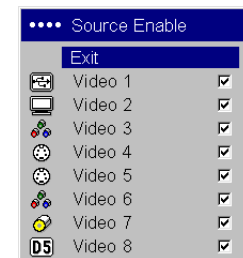
Settings menu



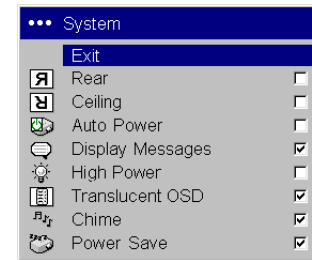
Sources



Source 1



Source Enable

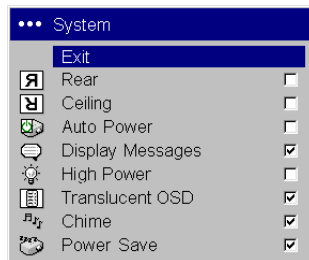


System menu

Translucent OSD: makes the menus translucent. This prevents the image from being completely covered by the menus while you are making image adjustments.

Chime: turn this on to hear a sound when the **Power** button is pressed.

Power Save: when On, the lamp is automatically turned 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 will be displayed.



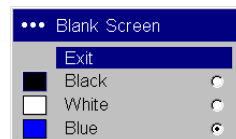
System menu

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.

Blank Screen: determines what color displays when you press the **Blank** button on the remote or when no source is active.

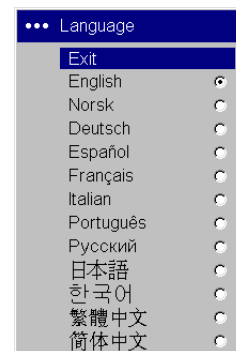


Startup logo



Blank Screen

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



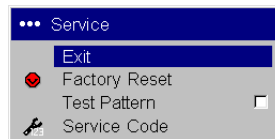
Language

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

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

Test Pattern: displays a test pattern when the **Blank** button on the remote is pressed. To select the patterns, use the up/down arrows on the remote or keypad.

Service Code: only used by authorized service personnel.



Service menu

Maintenance

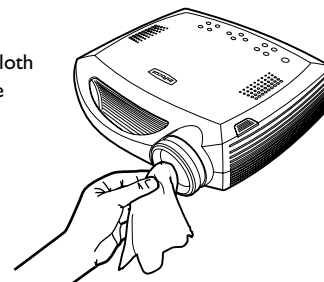
Cleaning the lens

- 1 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.

clean the lens
with a soft dry cloth
and non-abrasive
cleaner



Replacing the projection lamp

The lamp hour timer in the About menu counts the number of hours the lamp has been in use. After 1980 hours, the message “Change lamp” briefly appears on the screen at each startup. To maintain optimal video performance, we recommend changing the lamp after 2000 hours, depending on usage. You can order new lamp modules from your dealer. See “Accessories” on page 33 for information.

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

- 3 Turn the projector upside down and remove the lamp door by removing the two screws and sliding the lamp door tabs out of the three tab bays.

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

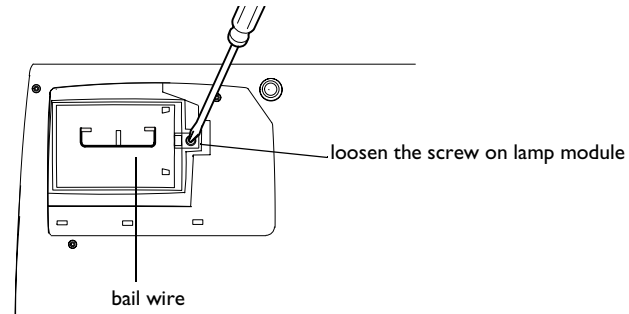
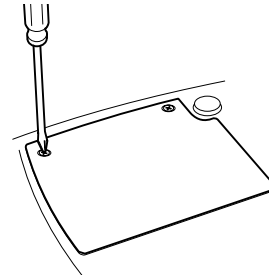
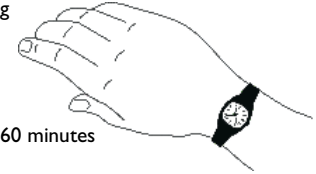
- 4 Loosen the captive screw on the lamp module.

About	
Lamp Hours Used	1980
Active Source	Video 1
Signal Format	1024x768 @ 72Hz
Version	2.1

Lamp hours used

turn off and unplug
the projector

wait 60 minutes



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 module. 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.

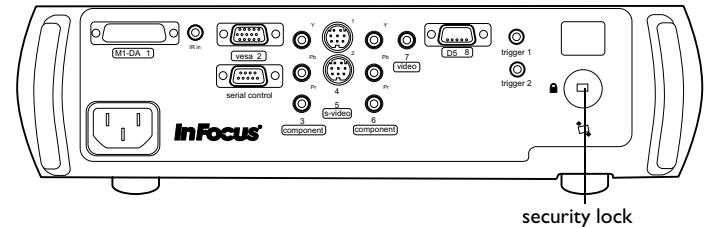
- 5 Carefully remove the lamp module by grasping and lifting the metal bail wire. Dispose of the lamp in an environmentally proper manner.
- 6 Install the new lamp module, making sure that it is properly seated.
- 7 Tighten the single screw.
- 8 Replace the lamp door by sliding the tabs into the tab bays and tightening the two screws.
- 9 Plug in the power cable, then press the **Power** button to turn the projector back on.
- 10 Reset the lamp hour timer.

Resetting the lamp timer

To reset the lamp age, simultaneously holding down the two **Brightness** buttons on the projector's keypad for 10 seconds.

Using the security lock

The projector has a security lock for use with a PC Guardian Cable Lock System. See "Accessories" on page 33 for ordering information. Refer to the information that came with the lock for instructions on how to use it.



Appendix

Specifications

Temperature Operating	50 to 95° F (10 to 35° C) at 0 - 10,000 feet
Non-operating	-4 to 158° F (-20 to 70° C) at 0 -20,000 feet
Altitude Operating	0 to 10,000 feet (3,048 meters)
Non-operating	0 to 20,000 feet (6,096 meters)
Humidity Operating	10% to 95% relative humidity, non-condensing
Non-operating	10% to 90% relative humidity, non-condensing
Dimensions	13.8 x 12.8 x 4.3" (351W x 325L x 110H mm)
Weight	9.3 lbs. (4.24 kg) unpacked
Optics Focus Range	5 - 32.8 feet (1.5 - 10 meters)
Lamp Type	UHP lamp (dual watt: 200 and 250 watt)
Input Power Requirements	100V-120V 4A, 50/60 Hz 200V-240V 2A 50 Hz
Ceiling Mount	UL tested/listed ceiling mount with minimum capacity of 46 lbs (20.87 kg)

Accessories

Standard Accessories (ship with the projector)

	Part Number
Shipping Box (with packaging)	110-0619-xx
Power Cable (country-dependent)	210-0023-xx
Director Remote	590-0567-xx
Projection Lamp Module (included in projector)	SP-LAMP-006
Lens Cap	505-1247-xx
User's Guide	010-0401-xx
Safety Card	009-0659-xx

Optional Accessories

	Part Number
Shipping Case (ATA approved)	CA-ATA-013
Projector Mount	SP-CEIL-005
Cable Cover	HW-CABLECVR-001
False Ceiling Plate for Projector Mount	SP-LTMT-PLT
Extension Arm for Projector Mount 26" - 47"	SP-LTMT-EXTP
30' Audio/Video Cable	SP-AV30
PC Guardian Cable Lock System	SP-LOCK
Replacement Lamp Module	SP-LAMP-006
North American Power Cable, 1m	SP-PC-US1M

NOTE: Use only approved accessories.

Red LED behavior and projector errors

If the projector is not functioning properly and the red LED is blinking, consult **Table 2** to determine a possible cause. There are two second pauses between the blinking cycles. Visit www.infocushome.com/support for more details on the red LED error codes.

Table 3: Red LEDs

Red LED Behavior	Explanation
One (1) blink	The lamp won't strike after five (5) attempts. Check the lamp and lamp door installations for loose connections.
Three (3) blinks	The projector has shut down the lamp. Replace the lamp. Contact Technical Support for repair if replacing the lamp does not solve the problem..
Four (4) blinks	The fan has failed. Replace the lamp (the lamp module contains a fan). Contact Technical Support for repair if replacing the fan does not solve the problem.
Five (5) blinks	The projector is overheating. Check for a blocked air vent. Contact Technical Support for repair if clearing the air vents does not solve the problem.

Projected image size

Table 4:
Range of projection distances for a given screen size

16:9 Screen dimensions (inches/m)	Screen diagonal (inches/m)	Projection Distance	
		Maximum zoom (feet/m)	Minimum zoom (feet/m)
27x48 .69x1.22	55.1/1.4	6.0/1.82	8.3/2.54
34x60 .9x1.5	68.8/1.75	7.5/2.3	10.4/3.2
40.5x72 1.0/1.8	82.6/2.1	9.0/2.7	12.5/3.8
45x80 1.1x2.0	91.8/2.3	10.0/3.0	13.9/4.2
49x87 1.2/2.2	99.8/2.5	10.8/3.3	15.1/4.6
52X92 1.3X2.3	105.6/2.7	11.4/3.5	16.0/4.9
54X96 1.4X2.4	110.1/2.8	11.9/3.6	16.7/5.1
58X104 1.5X2.6	119.3/3.0	12.9/3.9	18.1/5.5
65X116 1.7X3	133.1/3.4	14.4/4.4	20.1/6.1

NOTE: Visit our website at www.infocushome.com/support for an interactive image size calculator.

Source compatibility

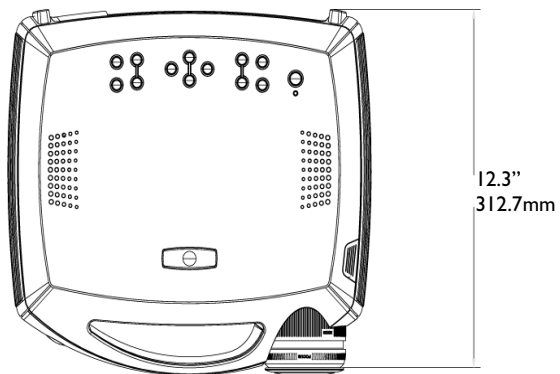
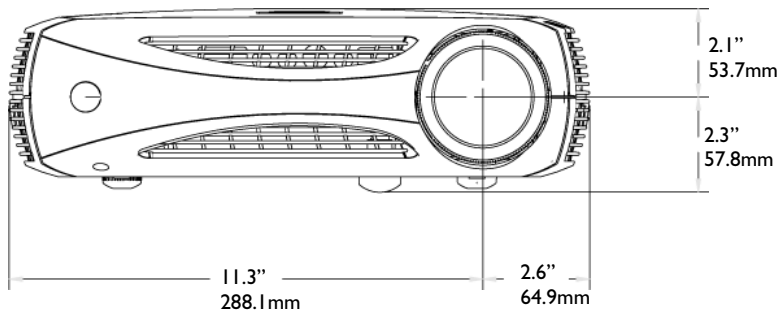
**Table 5:
Source Compability**

Video	Component and RGB HDTV (720p, 1035i, 1080p, 1080p-24Hz) DVI/HDCP for digital video and encrypted digital video Component EDTV (480p, 576p progressive scan), SECAM: M, Component, Composite and S-Video standard video (480i, 576i, 576i RGB SCART with adapter, NTSC, NTSC M 4.43, PAL: B, H, I, M, N)
Computer	Digital and analog PC, Macintosh, 1280x1024 resolution
Communi- cation	USB and RS-232

**Table 6:
Projector Inputs and Outputs**

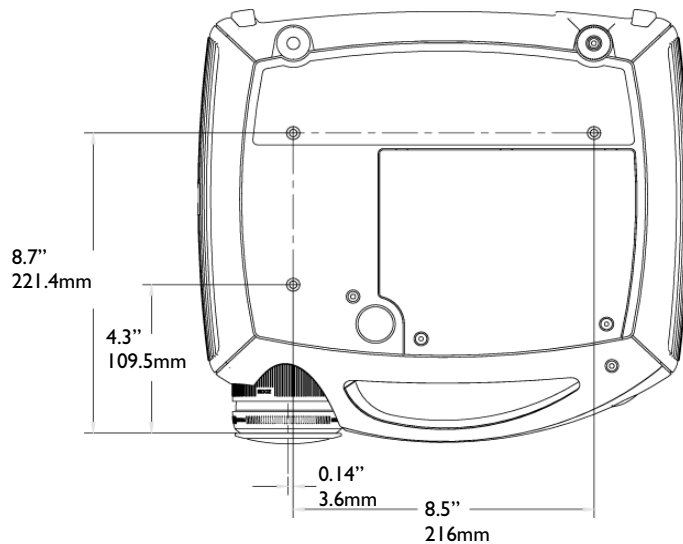
2-Component (Gold RCA)	HDTV, EDTV, and Standard TV component
1-Component (D5)	HDTV, EDTV, Standard TV, RGB SCART with adapter
2-S-Video	Standard Video
1-Composite (RCA)	Standard Video
1-M1-DA VESA	HDTV RGB, HDTV component, DVI, computer, and USB
1-HD15 VESA	HDTV RGB, HDTV component, computer
1-9-pin Dsub male	RS-232
1-3.5 mm mini jack	IR Repeater (Niles/Xantech compatible)
2-3.5 mm mini jack	1-12v screen drop, 1-12v 4:3 aspect "curtains"

Projector dimensions for ceiling mount installations



dimensions of optional cable cover: 12.4 x 3.9 x 3.2" (315 x 100 x 82mm)

total length with optional cable cover: 16.2" (411.5mm)



RS-232 terminal specifications

Communication configuration

To control the projector from an LCD control panel, connect an RS-232 cable to the serial control connector on the projector and set your computer's serial port settings to match this communication configuration:

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).

A read request format: (AAA?) where

- (starts the command
- AAA denotes the command
- ? denotes the read request
-) ends the command

A read command returns the range and the current setting, for example:

Function	Command	Response
Brightness	(BRT?)	(0-22, 10)
Lamp hours	(LMP?)	(0-9999, 421)

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.

Function	Command	Response
Brightness	(BRT10)	Sets the brightness to 10
Power	(PWR0)	Turns power off
Power	(PWR1)	Turns power on
Power	(PWR9999)	?

Supported commands

Function	Command	Range	Default
Aspect Ratio	ARZ	0-4 0 = Native 1 = 16:9 2 = 4:3 3 = Letterbox 4 = Natural Wide	1
Auto Chime Enable	ACE	0-1	1
Auto Power	APO	0-1	0
Auto Source	ASC	0-1	1
Blank	BLK	0-1	0
Blank Screen	BSC	0-2 0 = black 1 = blue 2 = white	0
Blue Color Offset	BCO	1-63	32
Blue Gain	BCG	1-63	32
Brightness	BRT	8-252	128
Ceiling	CEL	0-1	0
Chroma Detail	CDE	8-248	128
Color	CLR	8-252	128
Color Space	CSM	0-7 0 = RGB 3 = REC601 2 = REC709 7 = Auto	7
Color Temp	TMP	0-2 0 = 9300 1 = 8200 2 = 6500	2
Contrast	CON	8-252	128
CCS	CCS	0-1	0
Display Messages	DMG	0-1	1
Factory Reset (Write only)	RST	0-1	n/a
Gamma Table	GTB	0-4 0 = PC 1 = Video 2 = Film 3 = Bright Room 1 4 = Bright Room 2	2
Green Color Offset	GCO	1-63	32
Green Gain	GCG	1-63	32
High Power Enable	HPE	0-1	0
Horizontal Position	HPS	n/a	n/a
Keystone	DKC	2-254	128
Lamp Hours (Read only)	LMP	0-32767	0
Lamp Reset	LMR	0-32767	0
Luma Detail	LDE	8-248	128
Menu	MNU	0-1	0
Menu Navigation	NAV	0-4 0 = up 1 = down 4 = select	n/a

Language	LAN	0-11	0	Skintone Bypass Enable	SBE	0-1	1
		0 = English		Source	SRC	0-7	2
		1 = French				0 = Video 1, MI	
		2 = German				1 = Video 2, VESA	
		3 = Spanish				2 = Video 3, Com-	
		4 = Chinese Tradi-				ponent 1	
		tional				3 = Video 4,	
		5 = Japanese				S-Video 1	
		6 = Korean				4 = Video 5,	
		7 = Portuguese				S-Video 2	
		8 = Russian				5 = Video 6,	
		9 = Norwegian				Component 2	
		10 = Chinese Sim-				6 = Video 7,	
		plified				Composite	
		11 = Italian				7 = Video 8, D5	
NTSC 2:2 Pulldown Enable	NPE	0-1	0	Startup Logo	DSU	0-1	1
Noise Reduction Enable	NRE	0-2	8	Tint	TNT	8-252	128
		0 = Off		Tracking	MTS	2148-2248	n/a
		1 = Auto		Translucent OSD	TOE	0-1	1
		3 = Manual		TrueLife Enable	TLE	0-1	1
Noise Reduction Level	NRL	8-248	8	Vertical Position	VPS	n/a	n/a
Overscan	OVS	0-1	0	Video Standard	VSU	0-3	0
Phase	MSS	0-31	n/a			0 = Auto	
Power	PWR	0-1	0			1 = NTSC	
Power Save	PSV	0-1	0			2 = PAL	
Presets	PST	0-2	0			3 = SECAM	
		0 = User 1					
		1 = User 2					
		2 = User 3					
Rear Project	REA	0-1	0				
Red Color Offset	RCO	1-63	32				
Red Gain	RCG	1-63	32				

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Limited Warranty

Subject to the Limitations, Exclusions and Disclaimers hereof, InFocus Corporation (“InFocus”) warrants that the Projector, Lamps and Accessories (hereinafter collectively or individually referred to as “Product” as appropriate) purchased from InFocus, an InFocus distributor, or an InFocus reseller will conform to InFocus’ specifications and be free from defects in material or workmanship for the respective Limited Warranty period provided below. InFocus does not warrant that the Product will meet the specific requirements of the end-user customer.

If the Product while subject to this Limited Warranty, is defective in material or workmanship during the warranty period, then InFocus, at its option, will REPAIR or REPLACE the Product.

All exchanged parts and Products replaced under this Limited Warranty will become property of InFocus. InFocus’ sole obligation is to supply (or pay for) all labor necessary to repair the Product found to be defective within the Limited Warranty period and to repair or replace defective parts with new parts or, at the option of InFocus, serviceable used parts that are equivalent or superior to new parts performance. Limited Warranty periods are as follows:

- **Projector Product Limited Warranty Period (Excluding Lamps):** **Two (2) years** from date of purchase.
- **Lamp Product Limited Warranty Periods:** From the date of Projector Product purchase, the original installed lamp shall have a **90-day or 500 hours** usage Limited Warranty Period, whichever comes first, and replacement Lamps purchased at the time of Projector Product purchase will have a **500 hours** usage Limited Warranty period.
- **Accessory Product Limited Warranty Period:** one (1) year from date of purchase.

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 Limited Warranty excludes Product 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 Product Limited Warranty covers the accessory item only and excludes normal wear. The Lamp Product Limited 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.

DISCLAIMER OF UNSTATED WARRANTIES

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

Limited Warranty Period

The Limited Warranty periods hereof commence on the date of purchase by the end-user customer. 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). SOME JURISDICTIONS MAY GRANT YOU CONSUMER RIGHTS WITH MINIMUM WARRANTY DURATION THAT DIFFER FROM THE DURATIONS PROVIDED HEREIN, AND INFOCUS WILL HONOR ALL SUCH CONSUMER RIGHTS.

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 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; (II) provides the dealer's name; and (I) provides the model and serial number of the Product.

Upon request of InFocus Corporation or an authorized repair center for InFocus, proof of legal import 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.

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.

LIMITATION OF LIABILITY

IT IS UNDERSTOOD AND AGREED THAT INFOCUS' LIABILITY WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY, IN NEGLIGENCE OR OTHERWISE SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY PURCHASER AND UNDER NO CIRCUMSTANCES SHALL INFOCUS BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOST PROFITS, LOST REVENUES OR LOST SAVINGS. THE PRICE STATED FOR THE PRODUCTS IS A CONSIDERATION IN LIMITING INFOCUS' LIABILITY.

Limitation on Bringing Action - No action, regardless of form, arising out of the agreement to purchase the Product may be brought by purchaser more than one year after the cause of action has accrued.

Governing Law - Any action, regardless of form, arising out of the agreement to purchase the Product is governed by Oregon law.

Mandatory Arbitration – Any action, regardless of form, arising out of the agreement to purchase the Product is subject to mandatory arbitration.

SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, DEPENDING ON JURISDICTION.