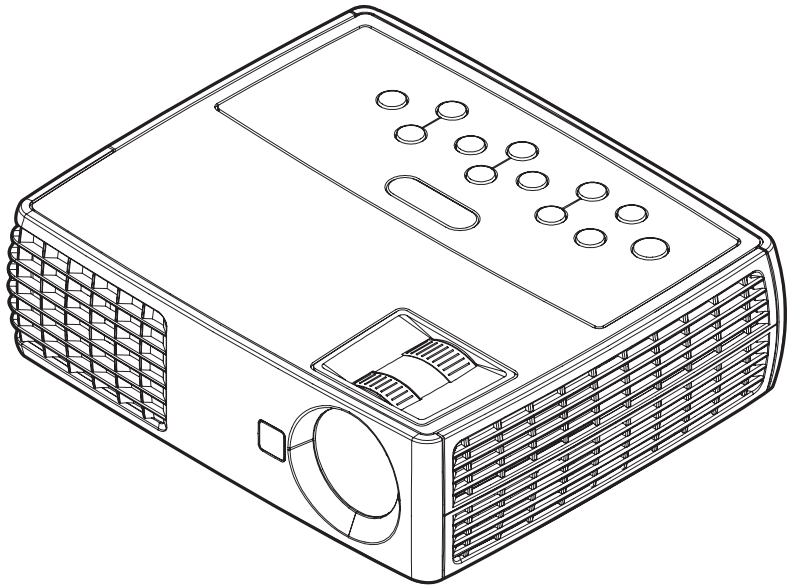
IN1110a/IN1112a

InFocus

IN1110a/IN1112a

User's Guide
Mode d'emploi
Benutzeranleitung
Manuale d'uso
Manual de Uso
Guia do Usuário
Användarhandbok
Руководство по пользователя
사용 설명서
用户指南
Panduan Pengguna
Gebruikershandleiding



PICTURE BY DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

36.8UT01G001-B
Regulatory models: IN1110a, IN1112a
DISPERINDAG No. 0287/1.824.51/09.03

InFocus
The New Way to Collaborate

Declaration of Conformity

Manufacturer: InFocus Corporation 13190 SW 68th Parkway, Portland, Oregon 97223-8368 USA

We declare under our sole responsibility that this projector conforms to the following directives and norms:

EMC Directive 2004/108/EC
EMC: EN 55022
EN 55024
EN 61000-3-2
EN 61000-3-3
Low Voltage Directive 2006/95/EC
Safety: IEC 60950-1

Trademarks

Apple, Macintosh, and PowerBook are trademarks or registered trademarks of Apple Computer, Inc. IBM is a trademark or registered trademark of International Business Machines, Inc. Microsoft, PowerPoint, and Windows are trademarks or registered trademarks of Microsoft Corporation. Adobe and Acrobat are trademarks or registered trademarks of Adobe Systems Incorporated. DLP® and the DLP logo are registered trademarks of Texas Instruments and BrilliantColor™ is a trademark of Texas Instruments. InFocus, In Focus, and INFOCUS (stylized) are either registered trademarks or trademarks of InFocus Corporation in the United States and other countries.

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 instruction, 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 may void authority to operate the equipment.

EN 55022 Warning

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

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.

Agency Approvals

UL, cUL

Other specific Country Approvals may apply. Please see product certification label.

This document applies to regulatory models IN1110a and IN1112a.

Input ratings: 100-240Vac, 2.3-0.9A, 50-60Hz

InFocus reserves the right to alter product offerings and specifications at any time without notice.

Table of Contents

Introduction 4
Positioning the projector 6
Connecting a computer source 7
- VESA connection 7
- HDMI connection 7
- Power connection 7
- Optional computer connections 7

Displaying an image 8
Adjusting the image 9
Video device connections 10
- Composite video connection 10
- HDMI 1.4 connection 10
- VESA connection 10
- Component video connection 10

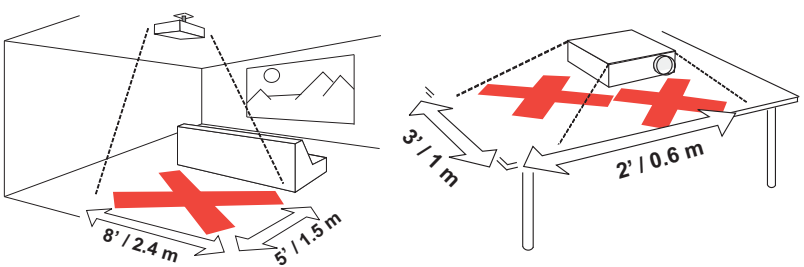
Shutting down the projector 11
Troubleshooting your setup 11
Using the remote control 19
Using the audio 20
Using the keypad buttons 21
Optimizing computer images 22
Presentation features 22
Optimizing video images 23
Customizing the projector 23
Using the menus 24
- Basic menu 25
- Advanced > Image menu 26
- Advanced > Setup menu 27
- Advanced > Status/Service menu 31

Multimedia EZ Suite Menu 32
- EZ Media 32
- EZ Display 40
- Settings 42

Maintenance 46
- Cleaning the lens 46
- Using the security lock 46
- Replacing the projection lamp 47

Important Operating Considerations for Safety

- Place the projector in a horizontal position no greater than 15 degrees off axis.
- Locate the projector in a well-ventilated area without any obstructions to intake or exhaust vents. Do not place the projector on a tablecloth or other soft covering that may block the vents.
- Locate the projector at least 4' (1.2 m) away from any heating or cooling vents.
- Only genuine InFocus lamps are tested for use in this projector. InFocus is not liable for the performance, safety or certification of any other lamps. The use of other lamps violates the projector warranty and voids all certification marks on this projector.
- Use only the power cord provided. A surge-protected power strip is recommended.
- Refer to this guide for proper startup and shutdown procedures.
- Hg – Lamp contains mercury. Manage in accordance with local disposal laws. See **www.lamprecycle.org**.
- In the unlikely event of a lamp rupture, particles may exit through the projector side vents. When the projector is turned on, keep people, food, and drinks out of the "keep out" area under and around the projector, as indicated by the "X" areas below.



Follow these instructions to help ensure image quality and lamp life over the life of the projector. Failure to follow these instructions may affect the warranty. For complete details of the warranty, see the Safety/Warranty Booklet.

Introduction

Your new digital projector is simple to connect, easy to use, and straightforward to maintain. The IN1110a has native XGA 1024x768 resolution, and the IN1112a has WXGA 1280x800 resolution. This guide applies to all products. They are compatible with a wide variety of computers and video devices.

Product specifications

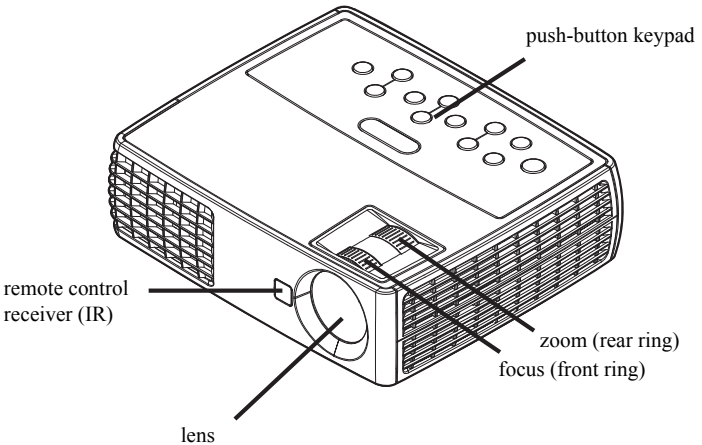
To read the latest specifications on your multimedia projector, be sure to visit our website at **www.infocus.com**, as specifications are subject to change.

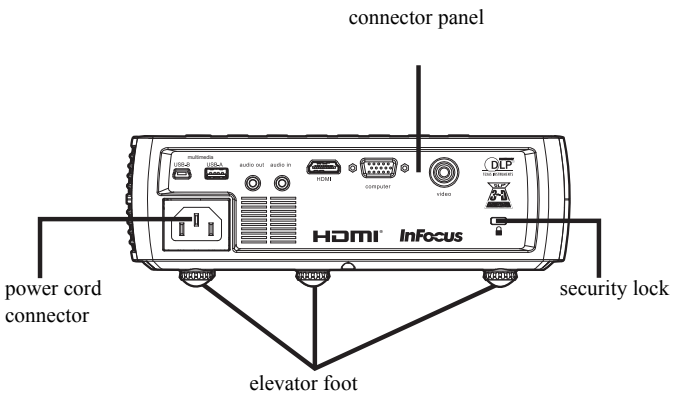
Accessories

The standard accessories that came with your projector are listed in the included Quick Start card. Optional accessories can be found on our website at **www.infocus.com** or at your retailer or dealer.

Online registration

Register your projector on our website at **www.infocus.com/register** to activate your warranty and receive product updates, announcements, and registration incentives.

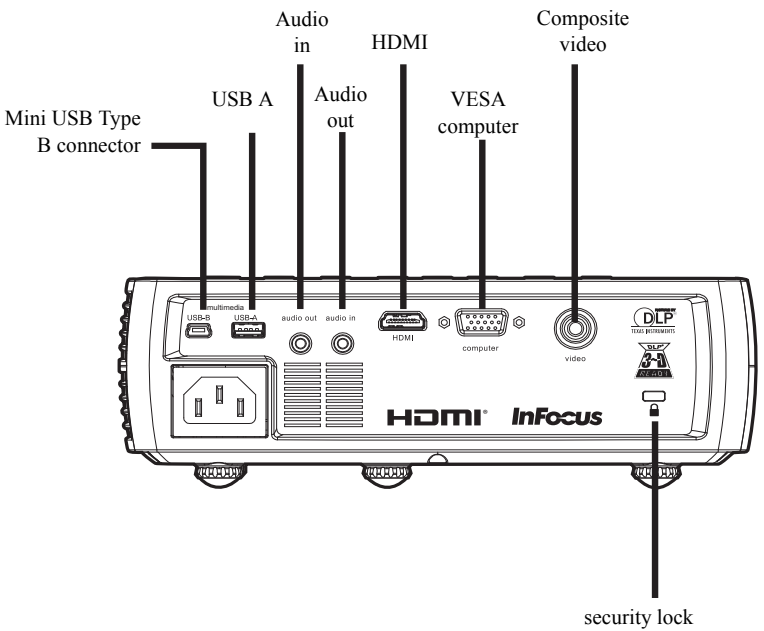




Connector panel

The projector provides the following connectors:

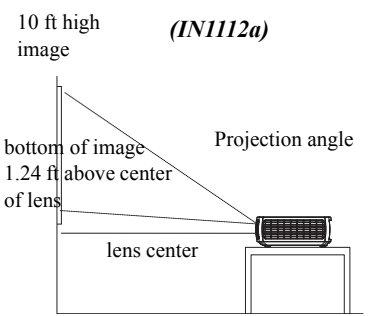
- Mini USB Type B: Used for advancing slides, Display over USB, saving files to internal memory and software upgrades.
- USB Type A: Used to display photos, videos and other files from a USB source device.
- Audio in
- Audio out
- HDMI
- VESA computer
- Composite video



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 guidelines:

- Position the projector on a flat surface at a right angle to the screen. The projector must be at least 4.9 feet (1.5m) 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.
- 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.
- The image exits the projector at a given angle. IN1110a image offset is 115%; IN1112a image offset is 112.4%. This means that if you have an image 10' high, the bottom of the image will be 1.5' (IN1110a) and 1.24' (IN1112a) above the center of the lens.



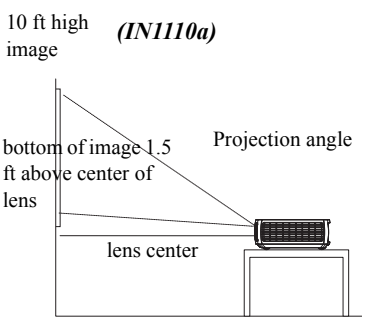


Table 1: (IN1110a)
Range of distance to the screen for a given screen size

Diagonal Screen Size (inches/m)	Distance to screen	
	Maximum distance (feet/m)	**Minimum Distance (feet/m)**
60/1.5	8'7"/2.6	7'10"/2.4
80/2.0	11'6"/3.5	10'5"/3.2
90/2.3	12'11"/3.9	11'8"/3.6
150/3.8	21'6"/6.6	19'6"/5.9

Table 2: (IN1112a)
Range of distance to the screen for a given screen size

Diagonal Screen Size (inches/m)	Distance to screen	
	Maximum distance (feet/m)	**Minimum Distance (feet/m)**
60/1.5	7'2"/2.2	6'7"/2.0
80/2.0	9'7"/2.9	8'9"/2.7
90/2.3	10'10"/3.3	9'10"/3.0
150/3.8	18'0"/5.5	16'5"/5.0

Connecting a computer source

VESA connection

Connect one end of the provided computer cable to the **Computer** connector on the projector and the other to the VESA connector on your computer. If you are using a desktop computer, you will need to disconnect the monitor cable from the computer's video port first.

HDMI connection

HDMI is a standard, uncompressed, all-digital audio/video interface. HDMI provides an interface between sources, such as set-top boxes, DVD players, and receivers and your projector. Plug a HDMI cable into the video out connector on the video device and into the **HDMI** connector on the projector.

To take advantage of HDMI 1.4 Deep Color (30 bit) and Blue-Ray 3D, you must have an 1.4-compatible source.

Power connection

Connect the black power cord to the **Power** connector on the side of the projector and to your electrical outlet. The Power light on the Status Indicator Panel (page 11) turns amber.

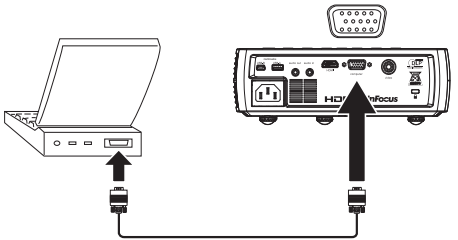
NOTE: Always use the power cord that shipped with the projector.

Optional computer connections

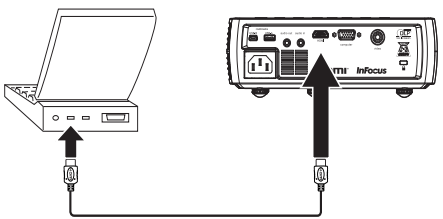
To get sound from the projector, connect an audio cable (optional cable, not included) to your computer and to the **Audio In** connector on the projector. You may also need an adapter.

To advance slides in a PowerPoint presentation using an optional remote control, plug the USB cable into the USB mouse connector on your computer and the **USB** connector on the projector.

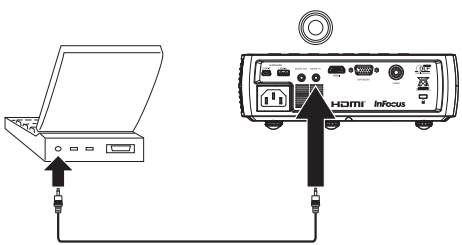
connect computer cable



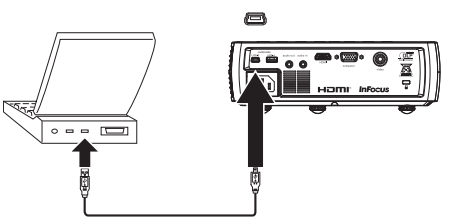
connect HDMI cable



connect audio cable



connect USB cable



Displaying an image

Touch the **Power** button.

The Power indicator blinks green and the fans start to run. When the lamp comes on, the start up screen displays and the Power indicator is steady green. It can take a minute for the image to achieve full brightness.

? No start up screen? Get help on page 12.

Turn on your computer or video device.

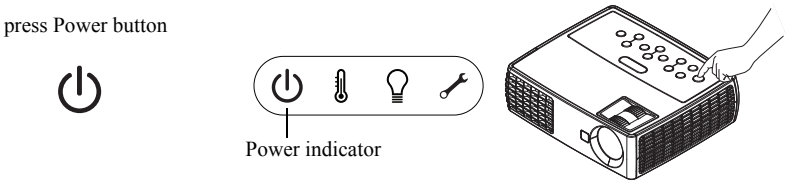
The image should appear on the projection screen. If it doesn't, press the **Source** button on the projector's keypad or remote. Then navigate to the desired source icon and press the Select button.

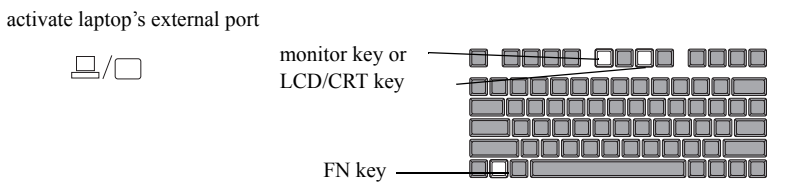
If you are using a VESA cable to connect your computer to the projector

If using a laptop, make sure its external video port is active.

Many laptops do not automatically turn on their external video port when a projector is connected. Usually a key combination like FN + F8 or CRT/LCD key turns the external display on and off. Locate a function key labeled CRT/LCD or a function key with a monitor symbol. Press FN and the labeled function key simultaneously. **Refer to your laptop's documentation to learn your laptop's key combination**.

? No laptop image? Try pressing the **Auto Image** button on the keypad. Get help on page 12.





Adjusting the image

If necessary, adjust the height of the projector by pressing the elevator foot release button to extend the foot.

If necessary, rotate the leveling foot located at the rear of the projector.

Avoid placing your hands near the hot exhaust vent at the side of the projector.

Position the projector the desired distance from the screen at a 90 degree angle to the screen.

See page 6 for a table listing screen sizes and distances.

Adjust the zoom or focus, as needed.

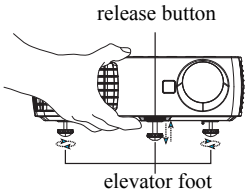
If the image is not square, first make sure that the projector is perpendicular to the screen. If the image is larger or smaller on the top or bottom edge of the screen, press the top **Keystone** button to reduce the upper part of the image, and press the bottom **Keystone** button to reduce the lower part.

If the left or right side of the screen is larger or smaller the other, you can turn the projector to the left or to the right a few degrees to square the image.

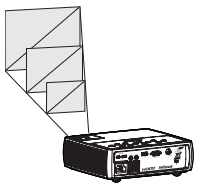
Adjust the Contrast or Brightness in the Basic menu. See page 25 for help with these menu adjustments.

For Aspect Ratio, keep in mind that DVD players must be configured for 16:9 in order to view the highest quality image. For more information regarding Aspect Ratio, see page 25.

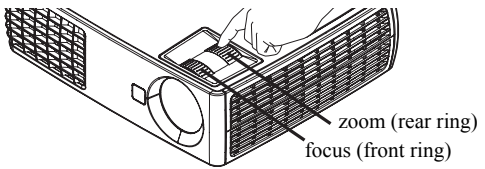
adjust height



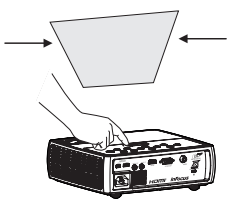
adjust distance



adjust zoom or focus

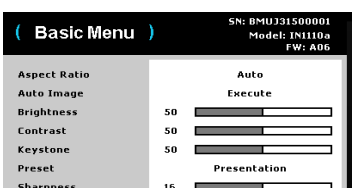


adjust keystone



adjust Basic menu

menu



Video device connections

No video cables are provided with the projector. You can order cables from InFocus or provide your own.

Composite video connection

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.

Plug the white connector of a Mini-plug audio Y-cable into the left audio out connector on the video device and plug the red connector into the right audio out connector on the video device. Plug the other end of the cable into the **Audio In** connector on the projector.

Keep in mind that video output from composite connections is not as high quality as HDMI.

HDMI 1.4 connection

HDMI is a standard, uncompressed, all-digital audio/video interface. HDMI provides an interface between sources, such as set-top boxes, DVD players, and receivers and your projector. Plug a HDMI cable into the video out connector on the video device and into the **HDMI** connector on the projector.

To take advantage of HDMI 1.4 Deep Color (30 bit) and Blu-Ray 3D, you must have an 1.4-compatible source.

VESA connection

If your video device has a 15-pin VGA output, plug one end of the included computer cable into the VGA connector on your video source. This connector may be labeled "To Monitor" on the video source. Plug the computer cable into the **Computer** connector on the projector.

Component video connection

If your HD video device has component connectors, an optional Component to VESA adapter can be used. Plug the component cable into the video device. Plug the other end of the component cable into the adapter and plug the adapter into the **Computer** connector. Keep in mind that video output from component connections is not as high quality as HDMI.

Shutting down the projector

The projector automatically displays a black screen after no active source is detected for 30 minutes. This black 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.

Auto Off Time

The projector also has an Auto Off Time feature that automatically turns the projector off after no active sources are detected and no user interaction with the projector is performed for 30 minutes. By default, this feature is off. You can change the length of time, see page 30.

Turning off the projector

To turn the projector off, press the **Power** button on the remote or keypad. The lamp turns off and the LED blinks amber for 1 minute while the fans continue to run to cool the lamp. When the lamp has cooled, the LED lights amber 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. If it does not, troubleshoot the setup.

The Status Indicator Panel on top of the projector indicates the state of the projector and can help you troubleshoot.

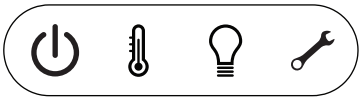
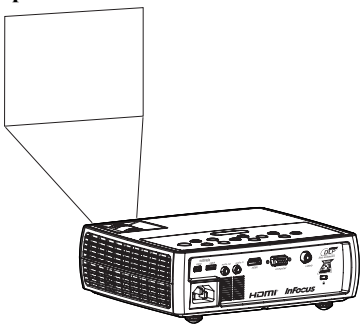
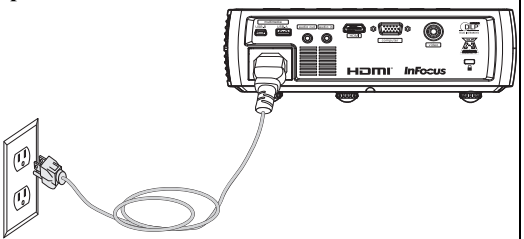
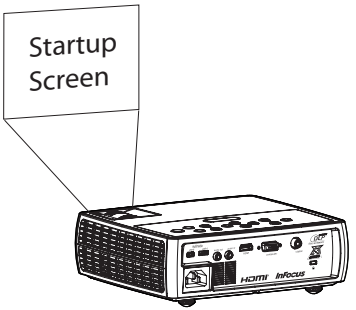
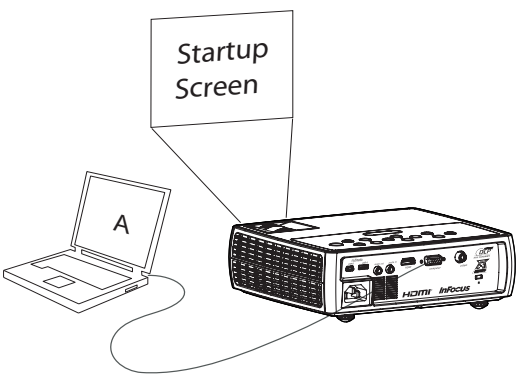
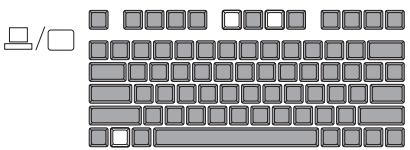
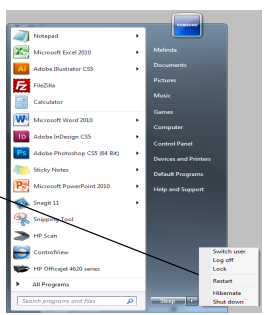
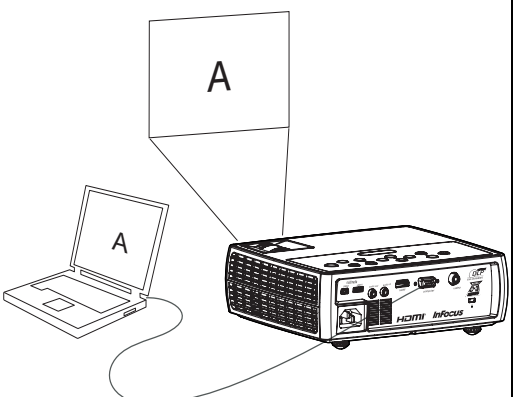
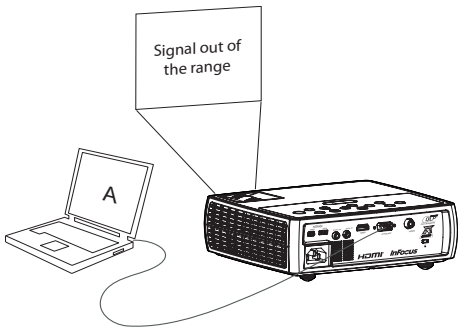
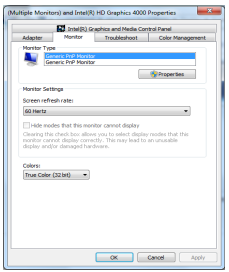
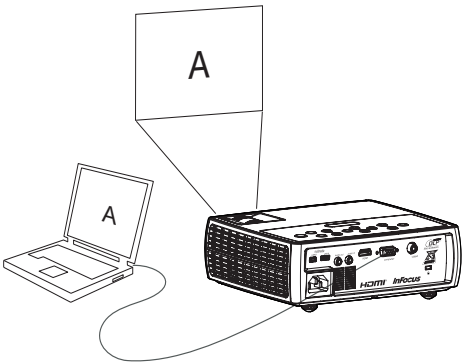
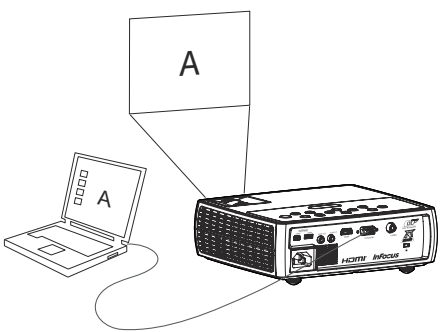
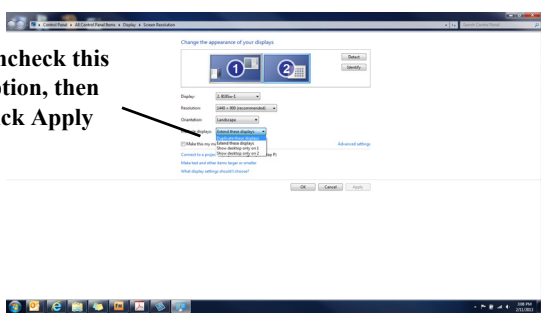
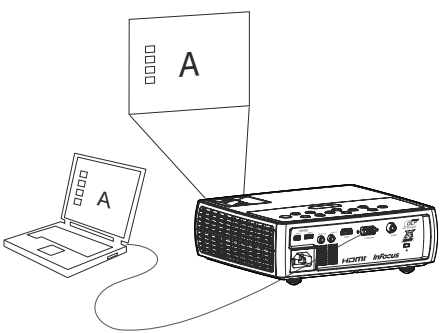
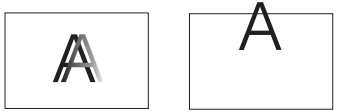
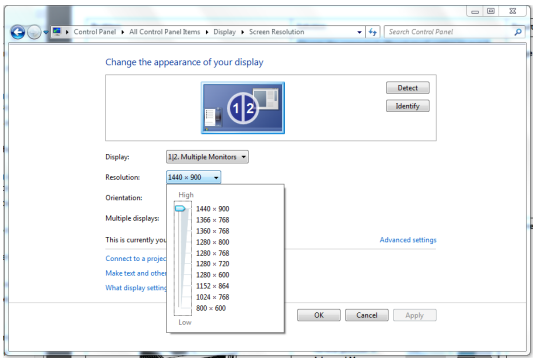
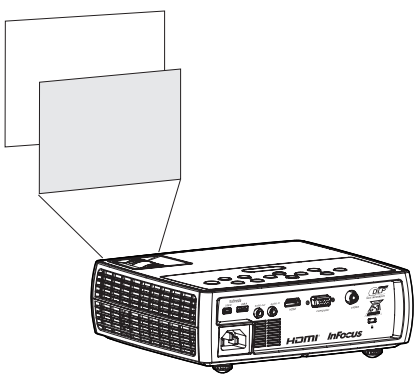
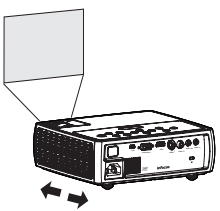
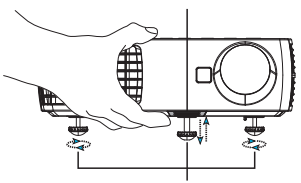
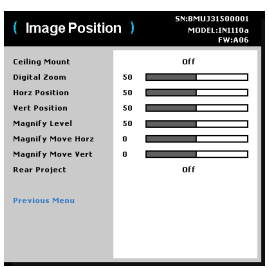
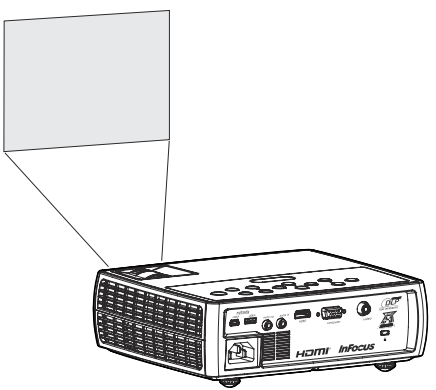


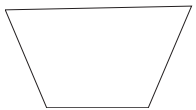
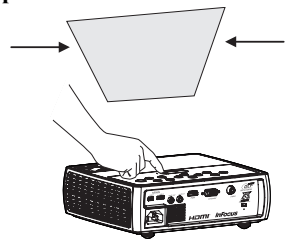
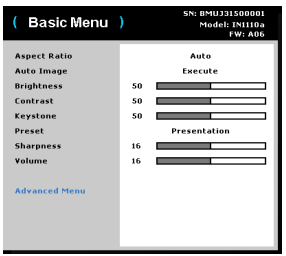
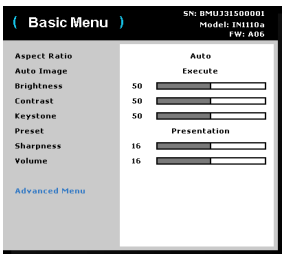
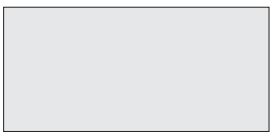
Table 3: Status indicator light behavior and meaning

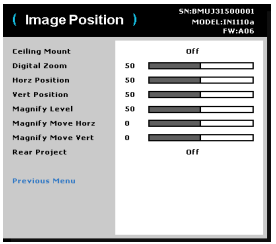
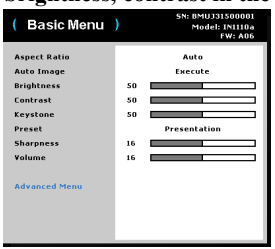
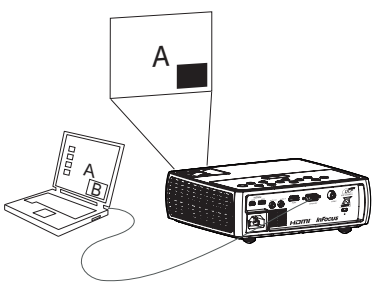
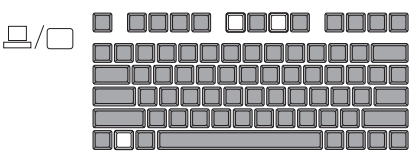
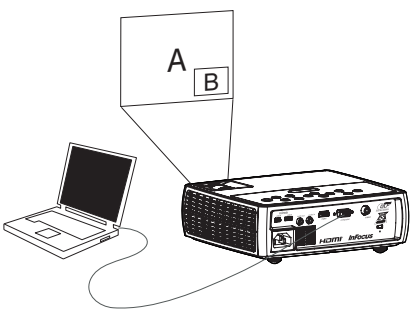
Status Indicator Panel icons	Meaning
Power, solid amber	The projector is plugged in.
Power, blinking green	The power button has been pressed and the software is initializing.
Power, solid green	The projector is on and initialized.
Power, blinking amber	The power button has been pressed to turn the projector off and the fans are running to cool the projector.
Thermometer	The projector is too hot. Make sure the vents aren't blocked (see page 17). Turn off the projector and wait one minute, then turn the projector on again. Visit www.infocus.com/support to contact service.
Lamp	Turn off the projector and wait one minute, then turn the projector on again. If the lamp light turns on again, replace the lamp and reset the lamp timer.
Wrench/Service	Turn off the projector and wait one minute, then turn the projector on again. If the service lamp turns on again, service is required. Visit www.infocus.com/support to contact the service department.

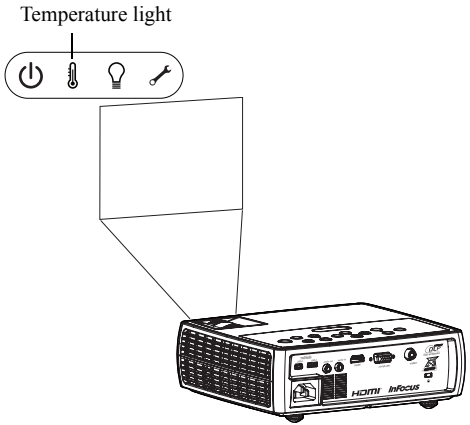
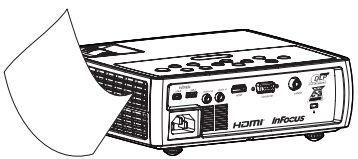
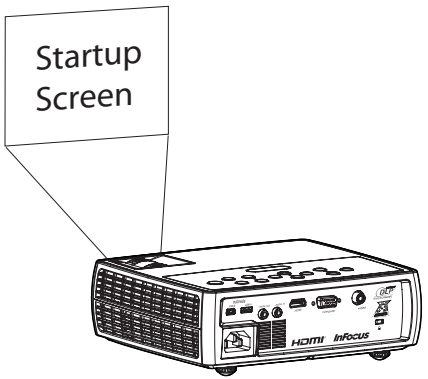
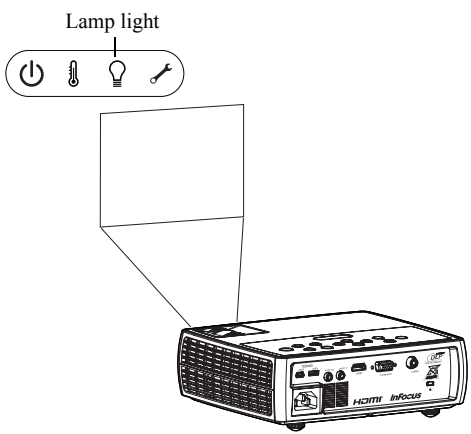
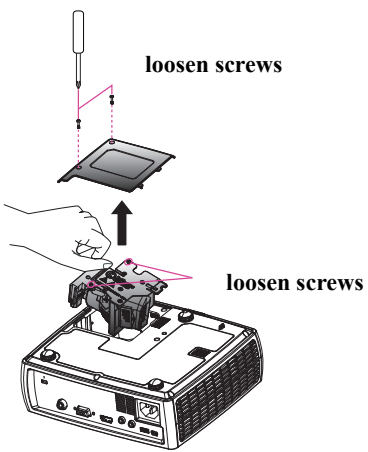
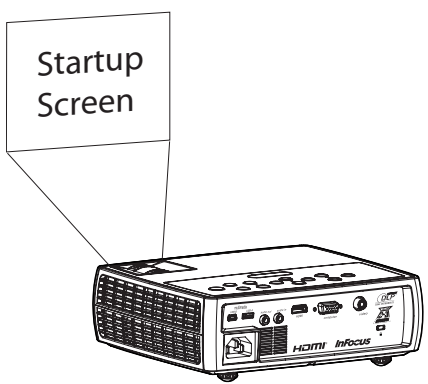
Problem	Solution	Result
No start up screen 	**Plug power cord into the projector and press the power button** 	**Correct image** 
Only start up screen appears 	**Press the Source button** **activate laptop's external port**  **Restart laptop** 	**Computer image projected** 

Problem	Solution	Result
No computer image, just the words "Signal out of range" 	**Press the Auto Image button on the keypad. Adjust computer refresh rate (Windows 7: Control Panel > Display > Screen Resolution > Advanced Settings > Monitor tab). Varies per operating system.**  **You may also need to set a different resolution on your computer, as shown in the following problem, "image fuzzy or cropped"**	**Computer image projected** 
Only my laptop's background appears, not the Desktop icons 	**Change the Multiple Display setting to "Duplicate these displays" (Windows 7: Control Panel > Display > Screen Resolution). Varies per operating system.** **Uncheck this option, then click Apply** 	**Background and Desktop projected** 

Problem	Solution	Result
Image fuzzy or cropped 	**Change the computer's "Resolution" setting to match the projector's resolution (Windows 7: Control Panel > Display > Screen Resolution). Varies per operating system.** 	**Image clear and not cropped**
Image not centered on screen 	**Move projector, adjust zoom, adjust height**   **Adjust horizontal or vertical position in Advanced > Setup > Image Setup menu** 	**Correct image** 

Problem	Solution	Result
Image not square 	**Adjust Keystone on keypad** 	**Square image**
Image not sharp	**Adjust Sharpness in the Basic menu** 	**Correct image**
Image does not fit 4:3 or 16:9 screen	**Change aspect ratio to 4:3 or 16:9 in the Basic menu** 	**Correct image** 

Problem	Solution	Result
Image reversed left to right 	**Turn off Rear Project in Advanced > Setup > Image Position menu** 	**Correct image**
Projected colors don't match source 	**Adjust color, tint, brightness, contrast in the Basic menu** 	**Correct image**
The video embedded in my PowerPoint presentation does not play on the screen 	**Turn off the internal LCD display on your laptop** 	**Embedded video plays correctly** 

Problem	Solution	Result
Lamp won't turn on, Temperature light is on Temperature light 	**Make sure vents aren't blocked, turn off the projector and allow it to cool for one minute** 	**Lamp turns on** 
"Replace lamp" message appears at startup, lamp won't turn on, Lamp light is turned on Lamp light 	**Lamp must be replaced (see page 47)** 	**Lamp turns on** 

Still need assistance?

If you need assistance, visit our website at **www.infocus.com/service** or call us. Check out our HOW TO section there for additional information. See the Quick Start Booklet for support contact information.

This product is backed by a limited 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. Please insure your shipment for its full value.

Using the remote control

The remote uses two (2) AA batteries (batteries not included). They are easily installed by removing the cover from the remote's back, aligning the + and - ends of the batteries, sliding them into place, and then replacing the cover.

Caution:

- When disposing of the batteries, be sure to do so in an environmentally proper manner.
- If the remote control gets wet, wipe it dry immediately.
- Avoid excessive heat and humidity.
- Ensure the batteries' polarity (+/-) is aligned correctly.
- Do not mix new and old batteries together, or different types of batteries together.
- Replace the batteries as soon as they run out.
- Remove batteries from the remote control when storing or not in use for a prolonged period.

To operate, point the remote at the front of the projector (not at the computer). The range of optimum operation is about 30 feet (9 m).

Press the remote's **Power** button to turn the projector on and off (see page 11 for shutdown info).

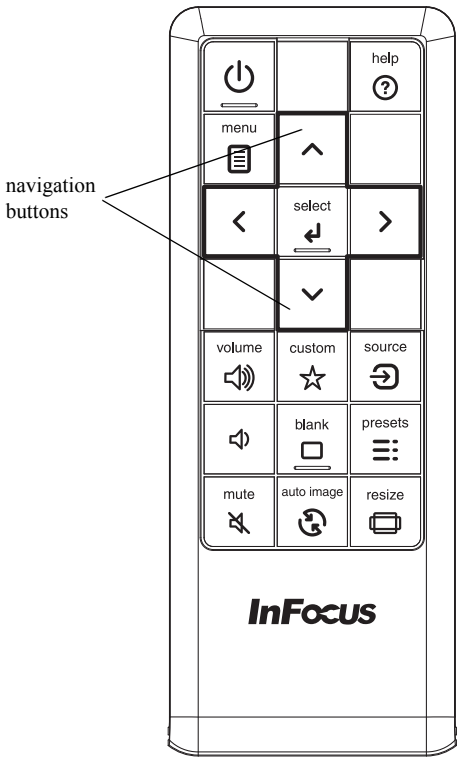
Press the remote's **Menu** button to open the projector's menu system. Use the arrow buttons to navigate, and the **Select** button to select features and adjust values in the menus. See page 24 for more info on the menus.

The remote also has:

- **Volume** buttons to adjust the sound.
- **Custom** button that can be assigned to a special function, like Blank Screen or Freeze (see page 26).
- **Source** button to switch between sources.
- **Blank** button to blank the screen.
- **Presets** button to select stored settings (see page 25).
- **Mute** button to silence the audio.
- **Auto Image** button to resynchronize the projector to the source.
- **Resize** button to switch among aspect ratios (see page 29).
- **Help** button to provide interactive help for solving common, picture, sound, and cabling problems.

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 front of the projector or at the screen, not the computer, and are within the remote range of 30 feet (9 m). For best results, point the remote at the front of the projector.



Using the audio

Using the projector's speaker

To use the projector's speaker, connect the audio source to the projector's **Audio In** connector.

To adjust the volume, press the **Volume** buttons on the keypad or remote.

Troubleshooting Audio

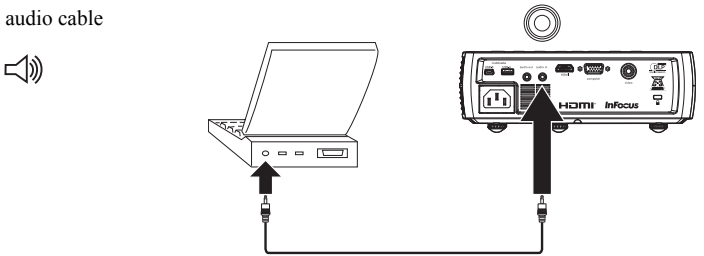
If you aren't hearing the audio, check the following:

- Make sure the volume is turned up enough. Press the **Volume** button on the keypad or remote.
- Make sure the correct source is active.
- Make sure that you are connected to an "audio out" connector on the source as opposed to a "line-in" or "microphone" connector.
- Adjust the audio source.
- If playing a video, make sure the playback has not been paused.

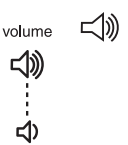
Connecting external speakers

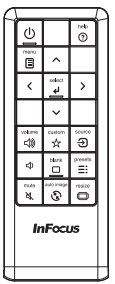
The projector can be attached to external amplified speakers by connecting a 3.5 mm stereo audio cable from the **Audio Out** connector on the projector to the amplified speakers. Alternatively, you can bypass the projector's audio system and connect the audio directly from your source to a stereo or home theater system.

connect audio cable

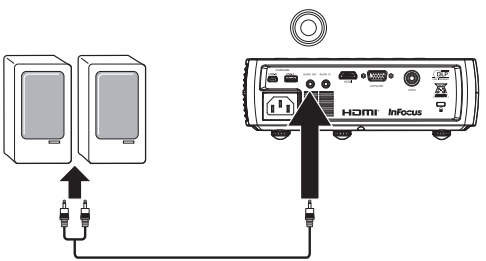


adjust volume





connect external speakers



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 and off (page 8).

Auto Image–resynchronizes the projector to the source (page 26).

Presets–cycles through the available preset settings (page 29).

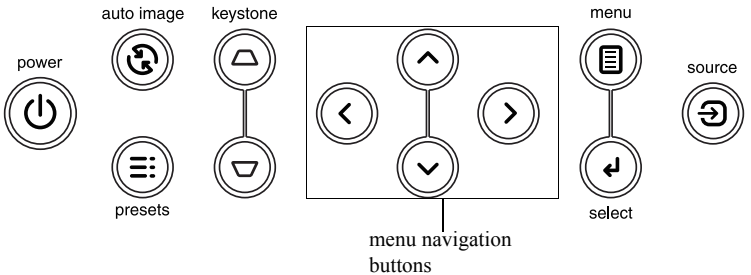
Keystone–adjusts squareness of the image (page 9).

Up/Down/Left/Right arrows–navigates to and adjusts settings in the menus (page 24).

Menu–opens the onscreen menus (page 24).

Select–confirms choices made in the menus (page 24).

Source–changes the active source (page 8).



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 24.

- Adjust the Keystone, Contrast, or Brightness in the Basic menu (page 25).
- Change the Aspect Ratio. Choose the option that best fits your input source (page 25).
- Adjust the Color Temperature in the Advanced > Image > Color Menu (page 25).
- Adjust the Phase, Tracking in the Advanced > Image > PC menu (page 26).
- Adjust the Horizontal or Vertical position in the Advanced > Setup > Image Setup 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 (page 25).

Presentation features

Several features are provided to make giving presentations easier. Here is an overview, details are found in the menu section.

- The Custom key allows you to assign various features to the button. The default effect is Source Info, which displays information about the projector and current source. See page 27 for details.
- The Search Screen option lets you change the appearance of the blank screen and start up screen (page 30).
- Auto Off is provided to automatically shut down the projector after several minutes of inactivity or display a black screen. This helps preserve lamp life (page 27).

Optimizing video images

After your 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 24.

- Adjust the Keystone, Contrast, Brightness, Color, or Tint in the Basic menu (page 25).
- Change the Aspect Ratio. Choose the option that best fits your input source (page 25).
- Select a Sharpness setting in the Basic menu (page 25).
- Adjust the Color Temperature in the Advanced > Image > Color Menu. Select a listed warmth value (page 26).
- Turn on Overscan in the Advanced > Image > Video Menu to remove noise on the edges of the image (page 26).

Customizing the projector

You can customize the projector for your specific setup and needs. See page 27 to page 28 for details on these features.

- For rear projection, turn Rear Project on in the Advanced > Setup > Image Setup menu.
- Specify which source the projector checks first for active video during power-up.
- Specify the function of the Custom key on the remote.
- Turn the projector's display messages on and off.
- Turn on power saving features.
- Specify appearance of blank screen and startup screen.
- Specify the language viewed on the menus.
- Save settings for the active source as a preset.

Using the menus

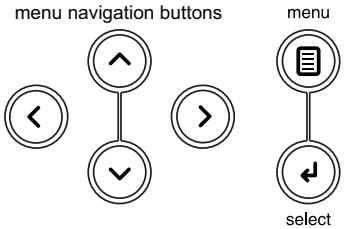
To open the menus, press the **Menu** button on the keypad or remote. (The menu automatically closes after 60 seconds if no buttons are pressed.) Use the up and down arrow buttons to highlight the desired menu option and then press the **Select** or right arrow button.

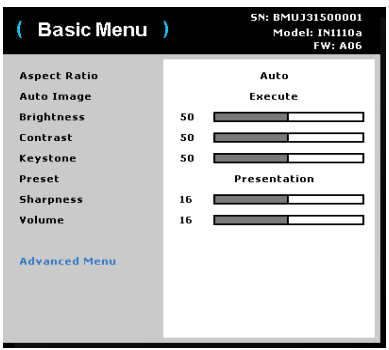
To change the menu settings (or enter another submenu), highlight the desired menu option and press the **Select** or right arrow button. Use the left and right arrow buttons to scroll through the options and make adjustments. To save your adjustments, press **Select**.

Press the **Menu** button again to exit the menu system.

The menus are grouped by usage:

- The Basic menu provides common image adjustments.
- The Advanced menu provides more complex image adjustments, set-up type adjustments that are not changed often and information about the projector and source.





Basic menu

Advanced menu

Basic menu

To change the following menu settings (or enter the Advanced menu), highlight the desired menu option and press the **Select** or right arrow button. Use the left and right arrow buttons to scroll through the options and make adjustments. To save your adjustments, press **Select**.

Aspect Ratio: is the ratio of the image width to image height. TV screens are usually 4:3. HDTV and most DVDs are 16:9.

Select Auto to have the projector choose the ratio. Choose Native to see the unmodified input with no resizing by the projector.

Select 16:9 to watch enhanced widescreen DVDs.

Auto Image: forces the projector to reacquire and lock to the input signal. This is useful when signal quality is marginal.

Brightness: changes the intensity of the image.

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.

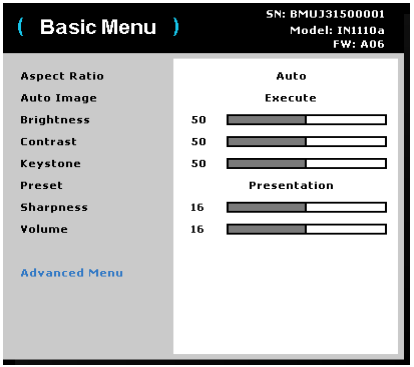
Keystone: adjusts the image vertically and makes a squarer image. You can also adjust keystone from the keypad.

Preset: Presets are provided that optimize the projector for displaying computer presentations and video images under certain conditions.

There is also an user-definable preset. To set this preset, adjust the image and select Save User in the Presets menu. You can recall these settings in the future by selecting the User preset.

Sharpness: changes the clarity of the edges of a video image. Select a sharpness setting.

Volume: adjusts the sound level.



Basic menu

Advanced > Image menu

3D Control:

- **3D**: toggles between on and off. Turn it on to display the image in 3D.
- **3D Sync Invert**: toggles between on and off. Turn it on when the image is discrete or overlapping.

Color:

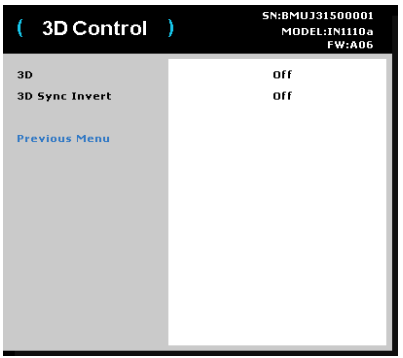
- **Color Space**: This option applies to computer and component video sources. It allows you to select a color space that has been specifically tuned for the input signal. When Auto is selected, the projector automatically determines the standard. To choose a different setting, turn off Auto, then choose RGB for computer sources or choose either REC709 or REC601 for component video sources.
- **Color Temp**: changes the intensity of the colors. Select a listed relative warmth value.
- **White Peaking**: (video sources only) increases the brightness of whites that are near 100%.
- **Tint**: adjusts the red-green color balance in the image of NTSC video images. The tint setting applies to NTSC video sources only.
- **Color:** adjusts the image from black and white to fully saturated color.
- **Red Gain**: adjusts the gain of the red channel of the image.
- **Green Gain**: adjusts the gain of the green channel of the image.
- **Blue Gain**: adjusts the gain of the blue channel of the image.
- **Gamma**: selects the appropriate gamma from Video, Film, Bright, and CRT.

PC:

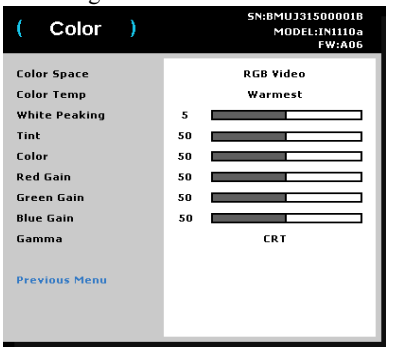
- **Force Wide**: This feature is to help with image-locking problems when the correct mode cannot be determined. If this feature is off and the exact resolution mode cannot be determined, the analog locking algorithms will use a 4:3 mode for the image. If this feature is on and the exact mode cannot be determined, the analog locking algorithms choose the best-matched wide mode (either 16:9 or 16:10) for the image.
- **Phase**: adjusts the horizontal phase of a computer source.
- **Tracking**: adjusts the vertical scan of a computer source.
- **PC Screen Saver**: allows your computer to go into Screen Save mode. The projector must be connected to the PC via a USB cable for this feature to work.

Video:

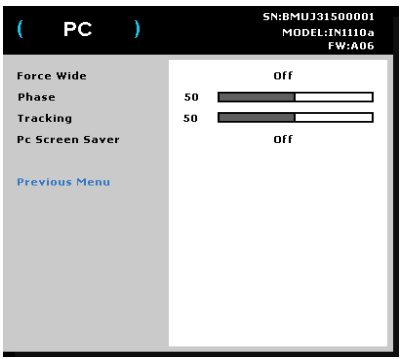
- **Closed Captions:** controls closed caption display while audio is not muted.
- **Overscan**: removes noise around the video image.



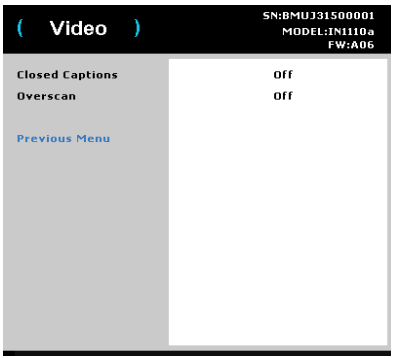
Advanced > Image > 3D Control Menu



Advanced > Image > Color Menu



Advanced > Image > PC Menu



Advanced > Image > Video Menu

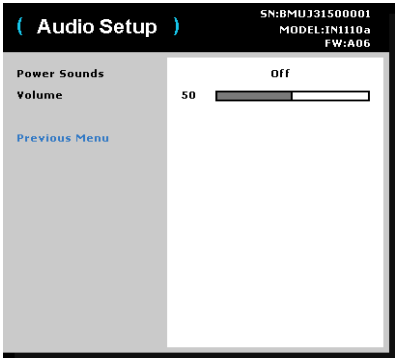
Advanced > Setup menu

Audio Setup:

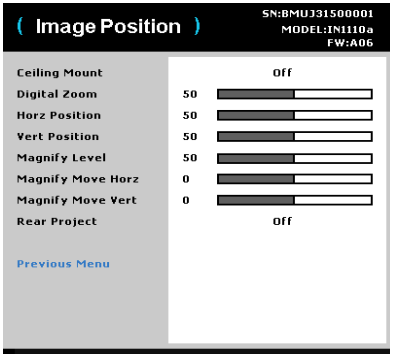
- **Power Sound**s: controls whether the projector makes a sound when powered on and off.
- **Volume**: adjusts the volume level.

Image Position:

- **Ceiling Mount**: turns the image upside down for ceiling-mounted projection.
- **Digital Zoom**: changes the size of projector's display area.
- **Horz Position**: adjusts the position horizontally of a computer source.
- **Vert Position**: adjusts the position vertically of a computer source.
- **Magnify Level**: adjusts the magnify level setting of the image.
- **Magnify Move Horz**: adjusts the magnify setting in horizontal direction.
- **Magnify Move Vert**: adjusts the magnify setting in vertical direction.
- **Rear Project**: reverses the image so you can project from behind a translucent screen.



Advanced > Setup > Audio Setup menu



Advanced > Setup > Image Position menu

Keypad/Remote:

- **Blank Key**: selects what to display when the **Blank Key** on the remote is pressed: your custom snapshot, a solid color screen (blue, black or white), the factory logo screen, a timer, or test patterns. The timer option is useful for classroom tests or break times during meetings.
- **Custom Key**: allows you to assign a different function to the Custom button, allowing you to quickly and easily use the effect. Highlight an effect and press Select to choose a different one.
- **Keypad**: enables or disables keypad.

Keystone:

- **Auto Keystone**: toggles between on and off. Turn it on to automatically adjust the image distortion.
- **Keystone**: adjusts the image vertically and makes a squarer image. You can also adjust keystone from the keypad.

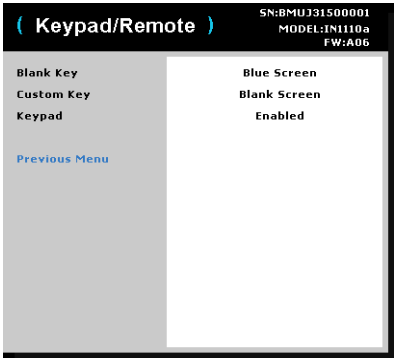
NOTE: The manual Keystone function is disabled when Auto Keystone is on.

Lamp:

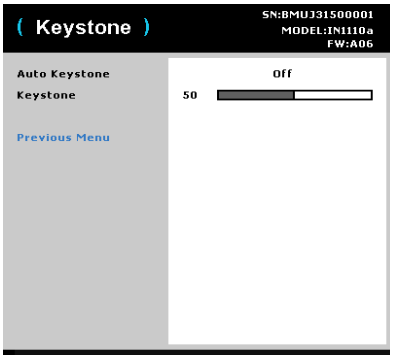
- **Lamp Low Power**: toggles between on and off. Turn it on to lower the light output of the lamp. This also lowers the fan speed, making the projector quieter. Note: When Lamp Low Power is on, ImageCare is unavailable.

OSD Setup:

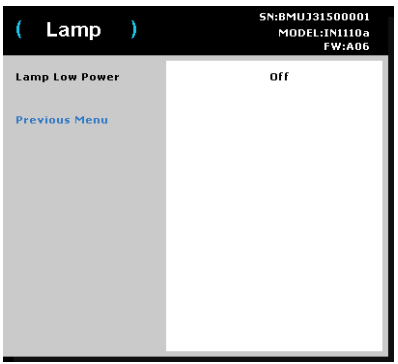
- **Language**: allows you to select a language for the onscreen display.
- **Menu Position**: allows you to change the position of the onscreen display.
- **Menu Transparency**: allows you to change how much of the projected image behind the menu you can see. As the value increases, more of the image behind the menu is visible.
- **Show Messages**: displays status messages (such as "Searching") in the lower-left corner of the screen.



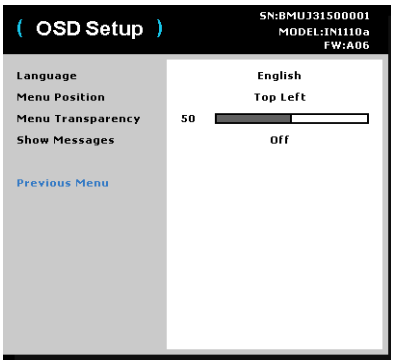
Advanced > Setup > Keypad/Remote menu



Advanced > Setup > Keystone menu



Advanced > Setup > Lamp menu



Advanced > Setup > OSD Setup menu

Pin Settings:

- **Change PIN:**

To enter the PIN at projector startup:

Power up the projector. The "Enter PIN" dialog box appears after the startup screen. Enter the PIN. Use the navigation buttons on the remote or keypad to enter the correct button press sequence. See the description above for instructions.

To change the PIN:

Select "Change PIN..." in the Setup menu. Enter the existing PIN. Enter the new PIN. You can navigate between OK and Cancel by pressing the left and right arrow keys. Press the **Select** button (or up/down arrow keys) to select the highlighted option. Verify the new PIN.

If you lose or forget your custom PIN:

Contact InFocus support. Go to www.infocus.com/support

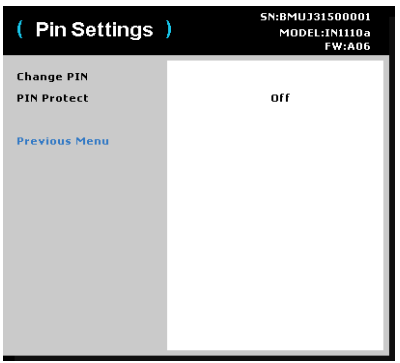
- **PIN Protect**: the PIN (personal identification number) feature allows you to password protect your projector. Once you enable the PIN feature, you must enter the PIN before you can project an image. The default PIN on this projector is Menu-Up-Down-Select-Source. Use the navigation buttons on the remote or keypad to enter the correct 5-button press sequence. When all 5 numbers are entered correctly, press the Select button on the remote or keypad to select OK. If the message "Wrong PIN" appears, verify the code and re-enter it. If you mis-enter a number, you must enter 5 numbers and press the Select button in order to access the "Wrong PIN" message and re-enter the code.

Power:

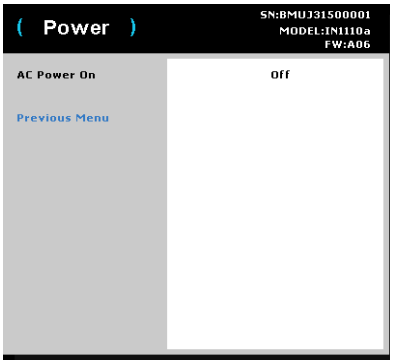
- **AC Power On**: when this feature is on, the projector automatically turns on when electrical power is connected.

Snapshot:

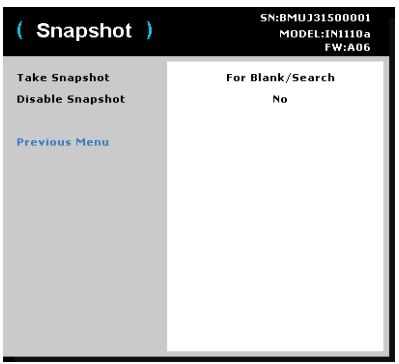
- **Take Snapshot**: captures the current image and allows it to be used as the search screen image. Note: Input resolution should be WXGA (1280x800) or less with a 3MB maximum image size.
- **Disable Snapshot**: removes the Snapshot function from the menu. A Factory Reset is needed to add the Snapshot function back to the menu.



Advanced > Setup > Pin Settings menu



Advanced > Setup > Power menu



Advanced > Setup > Snapshot menu

Source:

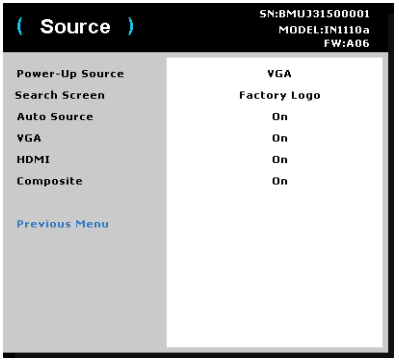
- **Power-up Source**: determines which source the projector checks first for active video during power-up.
- **Search Screen**: allows you to display a blank screen instead of the default screen at startup when no source is detected. Options include the factory logo screen, a custom Snapshot, or a blue, black or white screen.
- **Auto Source**: When this feature is On, the projector automatically finds the active source, checking the selected Power-up Source first. When this feature is Off, the projector defaults to the source selected in Power-up Source.

To display another source, you must manually select one by pressing the Source button on the remote or keypad. Then navigate to the desired source icon and press the Select button.

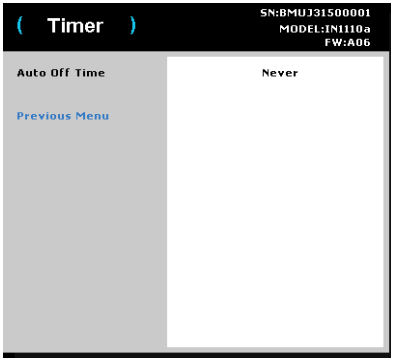
- **VGA**: toggles between On and Off. When On is selected, VGA will be included in the Auto Search function.
- **HDMI**: toggles between On and Off. When On is selected, HDMI will be included in the Auto Search function.
- **Composite**: toggles between On and Off. When On is selected, Composite will be included in the Auto Search function.

Timer:

- **Auto Off Time**: automatically turns the projector off after no signals are detected for a preset number of minutes. If an active signal is received before the projector powers down, the image will be displayed.



Advanced > Setup > Source menu



Advanced > Setup > Timer menu

Advanced > Status/Service menu

Source Info: a read-only display of current source settings.

Projector Info: a read-only display of current projector settings.

Reset Lamp Hours: resets the lamp hours used counter in the Projector Info menu to zero. Do this only after changing the lamp.

Factory Reset: restores all settings to their default.

Service Code: only used by authorized service personnel.

Advanced > Status/Service menu

Multimedia EZ Suite Menu

When a USB source is inserted into the projector (USB-A or USB-B), press the Source key and use the arrow keys to highlight the USB icon. Press the **Select** key to select the multimedia source. The Multimedia EZ Suite menu displays.

Use the arrow keys to navigate up and down, left and right. The right-hand menus change based on the left-hand menu selection. To select a menu option, press the right-hand arrow.

To return to the previous EZ Suite menu (and ultimately the EZ Suite main menu), press the **Menu** key on the remote or keypad.

Supported formats are:

Audio: MP3/WMA/AAC/OGG

Video: Xvid/MPEG4/AVC/AVI/H.264/WMV(VC-1)/M-JPEG

Photo:JPEG/BMP up to 64 megapixels

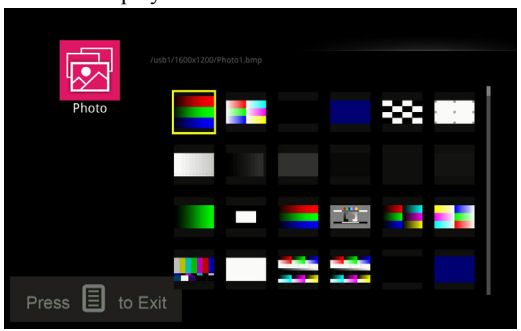
Office Reader: DOC/DOCX/XLS/XLSX/PPT/PPTX

PDF Reader: PDF

EZ Media

Viewing Photos

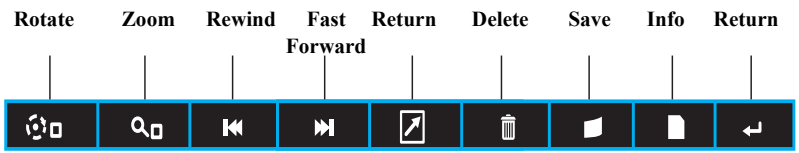
1. To view photos and other images, navigate to **EZ Media** and press the right arrow or **Select** key.
2. Using the up and down arrows, highlight **Internal Memory** if your images are stored on the projector or **USB** if you are using a storage device attached to the USB-A connector.
3. Press the right arrow or **Select** key.
4. Highlight **Photo** and press the right arrow or **Select** key. The Photo thumbnail view displays.



5. Press the arrow keys to highlight the desired image.
6. Press the **Select** key to open the image.
7. With the image open, use the right (or down) arrow to display the next image. Use the left (or up) arrow to display the previous image.
8. When done, press the **Select** key to return to the thumbnail view.
9. Press the **Menu** key again to return to the previous EZ Suite menu.

To display a control bar to control the photos:

1. Press the **Menu** key on the remote or keypad.
2. Use the left and right arrows to highlight a control bar function.
3. Press the **Select** key to activate the highlighted function.



Rotate: Press the **Select** key or down arrow to activate the Rotate feature (the menu icon turns red). Then press the **Select** key or the arrow keys to rotate the image (options = 0 (normal), 90°, 180°, and 270° degrees). Press the **Menu** key to exit the Rotate feature.

Zoom: Press the **Select** key or down arrow to activate the Zoom feature (the menu icon turns red). Then press the **Select** key to zoom the image (0 = normal/no zoom; 1-4 different zoom ratios). When the zoom is between 1 and 4, use the arrows to pan the image. Press the **Menu** key to exit the zoom feature.

Previous: Press the **Select** key or down arrow to display the previous image.

Next: Press the **Select** key or down arrow to display the next image.

Start Slideshow: Press the **Select** key or down arrow to start the Slideshow. Slideshow must be enabled in Photo Settings menu.

Delete: Press the **Select** key or down arrow to display the “Sure Delete?” dialog box. Use the up and down arrows to highlight **Yes** or **No** as appropriate, and press the **Select** key to activate the choice. Choosing **Yes** deletes the image from the projector’s internal memory or from the multimedia source.

Save: Press the **Select** key or down arrow to display the “Sure Copy?” dialog box. Use the up and down arrows to highlight **Yes** or **No** as appropriate, and press the **Select** key to activate the choice. Choosing **Yes** saves the image to the projector’s internal memory. Total size is 3.8GB.

Photo Info: Press the **Select** key or down arrow to display the image name and size.

Return: Press the **Select** key or down arrow to return to the thumbnail view.

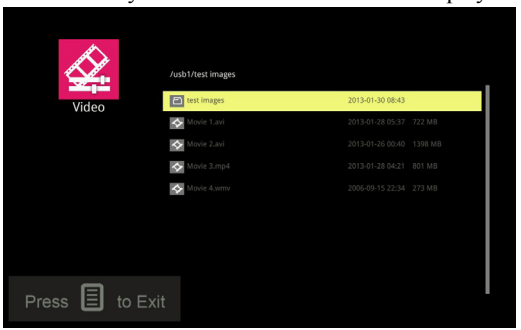
Note: You can adjust whether image files display as full screen or original and in slideshow mode or not, by adusting the Photo Settings in the Settings menu.

Table 4: Compatible Image Types

Image Type	Sub Type	Encode Type	Max Pixels
JPEG, JPG	Baseline	YUV400	No Limit
		YUV420	No Limit
		YUV422	No Limit
		YUV440	No Limit
		YUV444	No Limit
	Progressive	YUV400	Width<=10240, Height <=6400
		YUV420	
		YUV422	
		YUV4422	
		YUV444	
BMP			No Limit

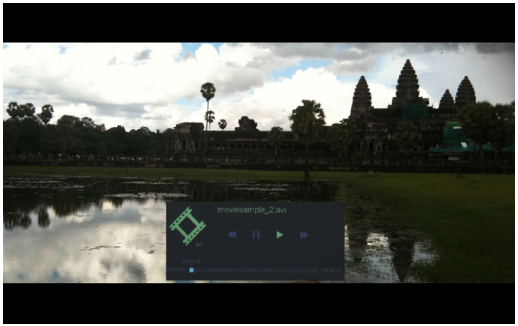
Viewing Videos

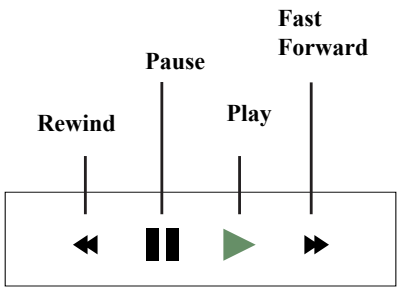
1. To view videos and other audiovisual files, navigate to **EZ Media** and press the right arrow key.
2. Using the up and down arrows, highlight **Internal Memory** (if your images are stored on the projector) or **USB** (if you are using a USB-A storage device).
3. Press the right arrow or the **Select** key.
4. Once your source is selected, highlight **Video** and press the right arrow or the **Select** key. The list of audiovisual files displays.



5. To sort the videos, press the left arrow key. **Sort by Name** and **Sort by Time** options are displayed. Press the up or down arrow keys to highlight the desired sorting option and press the **Select** key to sort the videos.
6. Press the up and down arrow keys to highlight the desired video.
7. Press the **Select** key or right arrow key to open the video.

8 To open the video control bar while the movie is playing, press the **Menu** key.





To pause/play the audiovisual file: Press the **Select** key to pause and play the audiovisual file.

To rewind the audiovisual file: Press the left arrow key to rewind the video and toggle through the different rewind speeds. Press the **Select** key to stop rewinding. Options include: X1, X2, X4, and X8.

To fast forward the audiovisual file: Press the right arrow key to fast forward the video and toggle through the different forward speeds. Press the **Select** key to stop forwarding. Options include: X1, X2, X4 and X8.

To adjust volume: Press the **Volume Up** and **Down** keys on the remote to increase and decrease the volume.

9 To stop the video and return to the video list screen press the **Select** key.

10 Press the **Menu** key to return to the EZ Suite menu.

Note: You can adjust whether the audiovisual files play once or if they play continuously, and whether the audiovisual file aspect ratio displays as full screen or original, by adjusting the Video Settings in the Settings menu.

Table 11: Compatible Video Types

File Type	Video	Resolution	Bit Rate	Frame Rate	Audio Code	Comment
AVI, MKV	XVID, MPEG4, H.264, M-JPEG, WMV3	1080P	20Mbps	30fps	AC3, DTS, MPEG1/2/3, PCM, ADPCM, AAC	No support VC-1 AP H.264 supports less than 4 reference frames
TS	H.264	1080P	20Mbps	30fps	AC3, AAC, MPEG1/2/3, DTS, LPCM	H.264 supports less than 4 reference frames
DAT, VOB, MPG, MPEG	MPEG-1	1080P	20Mbps	30fps	MPEG1/2/3, AC3, DTS, LPCM	
MOV, MP4, 3GP	MPEG-4, H.264, H.263	1080P	20Mbps	30fps	AAC, AMR, PCM, ADPCM	H.264 supports less than 4 reference frames
RM, RMVB	RV3, RV4	720P	5Mbps	30fps	Cook (RA4), AAC(RA9), RACP(RA10)	
WMV	WMV3	1080P	20Mbps	30fps	WMA2, WMA3	No support VC-1 AP

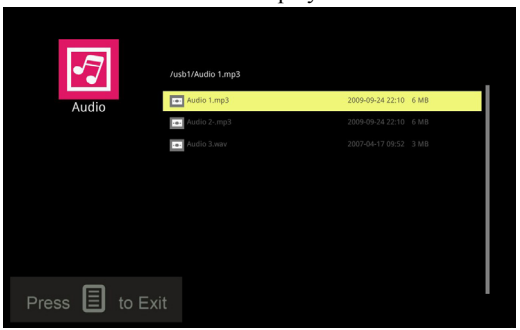
Listening to Audio Files

1 To listen to audio files, navigate to **EZ Media** and press the right arrow or the **Select** key.

2 Using the up and down arrows, highlight **Internal Memory** (if your images are stored on the projector) or **USB** (if you are using a USB-A source).

3 Press the right arrow or the **Select** key.

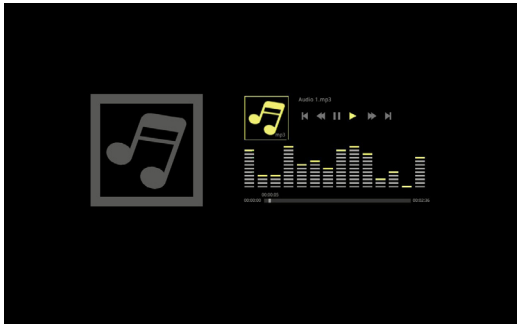
4 Once your source is selected, highlight **Audio** and press the right arrow key. The list of audio files displays.



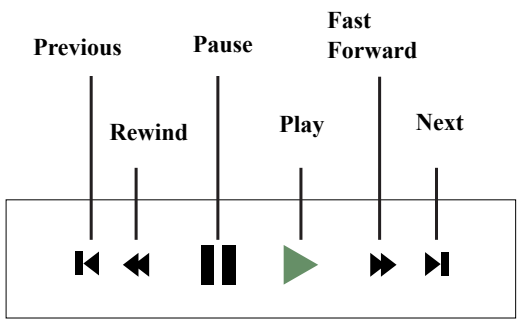
5 To sort the audio files, press the left arrow key. **Sort by Name** and **Sort by Time** options are displayed. Press the up or down arrow keys to highlight the desired sorting option and press the **Select** key to sort the audio files.

6 Press the up and down arrow keys to highlight the desired audio file.

7 Press the right arrow or the **Select** key to open the file.



8 To control the audio file:



- **To pause/start the audiovisual file:** Press the **Select** key to pause and start the audio file.
- **To rewind the audio file:** Press the left arrow key to rewind the audio. Press again to return to normal speed.
- **To fast forward the audio file:** Press the right arrow key to fast forward the audio. Press again to return to normal speed.
- **To adjust volume:** Press the **Volume Up** and **Down** keys on the remote to increase and decrease the volume.
- **To go to the previous audio file:** Press left arrow key twice within one second.

- **To go to the next audio file:** Press the right arrow key twice within one second.

9 Press the **Menu** key to close the audio file and return to the audio file list.

Note: You can adjust whether your audio files play once or repeat, by adjusting the Audio Settings in the Settings menu.

Table 10: Compatible Audio Types

Audio Type	Sample Rate (KHz)	Bit Rate (Kbps)
MP1/MP2/MP3	8-48	8-320
WMA	22-48	5-320
OGG	8-48	63-320
ADPCM-WAV	8-48	64-320
PCM-WAV	8-48	128-1536
AAC	8-48	8-256

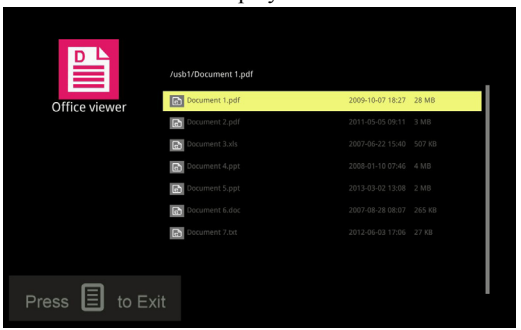
Displaying Documents

1 To view document files, navigate to **EZ Media** and press the right arrow key or the **Select** key.

2 Using the up and down arrows, highlight **Internal Memory** (if your images are stored on the projector) or **USB** (if you are using a USB-A source).

3 Press the right arrow key or the **Select** key to select the source.

4 Highlight **Office Viewer** and press the right arrow key or the **Select** key. The list of documents displays. .



5 To sort the document files, press the left arrow key. **Sort by Name** and **Sort by Time** options are displayed. Press the up or down arrow keys to highlight the desired sorting option and press the **Select** key to sort the files.

6 Press the up and down arrow keys to highlight the desired document file.

7 Press the right arrow or the **Select** key to open the file.

INNOVATE! 2011
ASTD-Cascadia Regional Conference

ASTD – Cascadia Chapter
2011 Regional Conference
October 11 – 12, 2011
Salem Conference Center

Schedule

All Conference events and workshops are being held on the second floor.

Tuesday, October 11, 2011

8 – 9 am	**Check in and Onsite Registration** (2nd Floor Foyer)			
8 am – 5 pm	**Exhibit Hall** (Willamette River Room, Section B) **JumpStart CyberCafé** (2nd Floor Foyer)			
9 – 9:15 am	Willamette River Room (Sections A and D) Welcome and Opening Remarks			
9:15 – 10:15 am	Willamette River Room (Sections A and D) **POO, MOO, and SHOE…What Innovators Know and DO DO with Kirk Weisler**			
10:15 – 10:45 am	**Exhibit Hall** (2nd Floor, Willamette River Room, Section B) **JumpStart CyberCafé** (2nd Floor Foyer)			
10:45 am – Noon	Willamette River Room – Section C	Croisan Creek A	Croisan Creek B	Croisan Creek C
Concurrent Sessions	*Push Fast PowerPoint* Jennifer Dryden	*From Creativity to Innovation: Bringing the Best Out of Small Groups* Rebecca Bodrero	*Three Reasons Training Programs Succeed or Fail* Jeff Toister	*Dr John Medina's Brain Rules* Jillian Douglas
Noon – 12:15 pm	**Exhibit Hall** (2nd Floor, Willamette River Room, Section B) **JumpStart CyberCafé** (2nd Floor Foyer)			
Break 12:15 – 1:15 pm	Willamette River Room (Sections A and D)			

8 With the file open, you can control the file with the arrow and Keystone keys:

To go to the next page: press the down arrow key.

To go to the previous page: press the up arrow key.

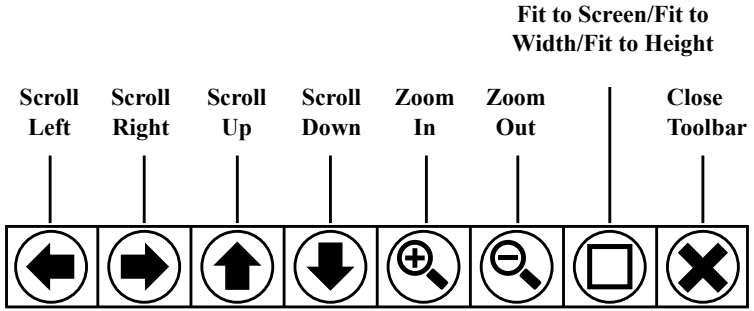
To scroll down: press the right arrow key.

To scroll up: press the left arrow key.

To zoom in on the page: press the Keystone + key.

To zoom out on the page: press the Keystone – key.

9 Or you can press the **Menu** key to open the Office Viewer toolbar. Then use the right and left arrows to highlight the desired function and press the **Select** key.



.**Note:** The file name displays in the upper left corner of the Office Viewer toolbar. The current page number and number of pages appears on the upper right corner. The amount of magnification displays on the lower right corner.

Table 10: Compatible Document Types

Supported Versions	Microsoft Office Application	File Extension
Microsoft® Office 95, Microsoft® Office 97, Microsoft® Office 2000, Microsoft® Office 2003, Microsoft® Office 2007, Microsoft® Office 2010	Word	.doc .docx
	PowerPoint	.ppt .pptx
	Excel	.xls .xlsx
	Adobe® PDF	.pdf

EZ Display

EZ Display allows you to project your files from your PC, Macintosh, Android or iOS device wirelessly with optional adapters SP-WIFIUSB or SP-WIFIUSB-02.

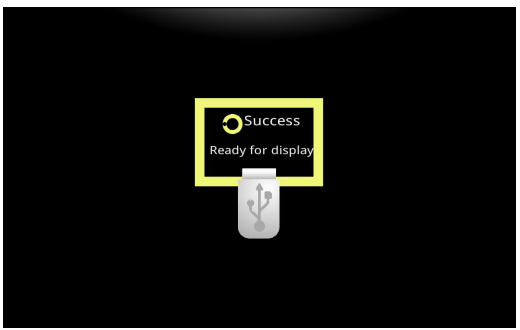
EZ Display also allows you to display over USB from your PC or MAC.

EZ Mobile allows you to connect wirelessly to a media server and DLNA enabled devices.

For more information about the applications EZ USB, EZ WiFi, and EZ Display, review these manuals at www.infocus.com/support:

- EZ USB Display Manual(Win+Mac)
- EZ WiFi Display Manual-Mac
- EZ WiFi Display Manual-Win
- EZ Mobile Operation
- EZ Display - EZ Remote Manual-Android
- EZ Display - EZ Remote Manual-iOS

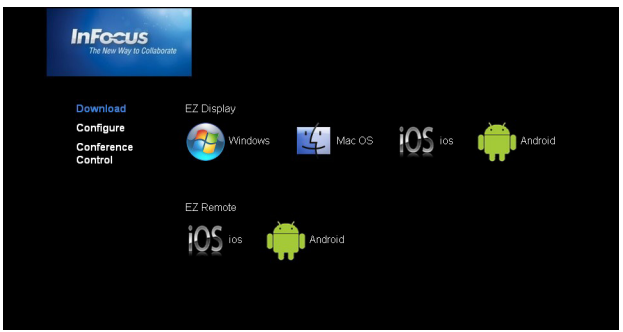
EZ USB



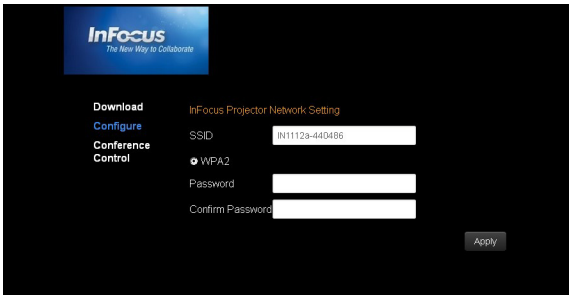
EZ WiFi

Before enabling, a WiFi adapter must be inserted in the USB Type-A input. The adapter will configure as a standalone Access Point by default. The self generated SSID will be the model name of the display plus a randomly generated 6-digit number for differentiation between like displays. WPA2 is enabled by default with a key value of 87654321.

After a WiFi connection has been established, the projector can be accessed with a browser at the displayed IP address. EZ WiFi/LAN applications (as listed to the left) can be downloaded from the top page.



WiFi can be configured with your browser.



Multiple users connected via the EZ WiFi/LAN application can be controlled with your browser.

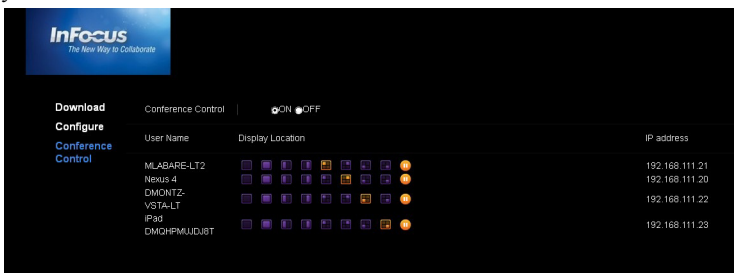


Table 11: EZ WiFi/LAN Icons

Icons	Description
	Remove the user
	Display the user full screen
	Display the user on the left side
	Display the user on the right side
	Display 4 users in different quadrants
	Pause user display

Settings

1 To configure the System, Video, Photo, Audio or WiFi settings, navigate to **Settings** and press the right arrow or the **Select** key.

2 Using the up and down arrows, highlight the feature to be configured.

3 Press the right arrow or the **Select** key.

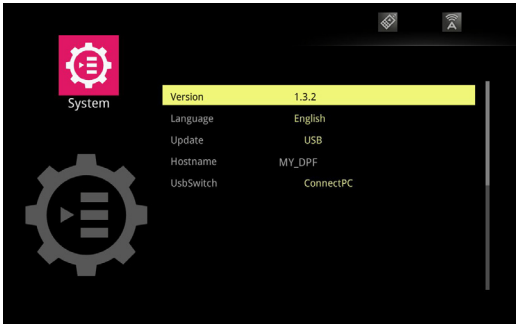
4 Use the up and down arrow keys to navigate to the item you wish to adjust.

5 Using the right and left arrow keys, highlight the option you wish to activate.

6 Press the Select key on the remote or keypad to save your changes.

7 Press the Menu key to return to the multimedia main menu.

System Submenu



Version: This is the version of EZ Suite software on your projector. This is a read-only field.

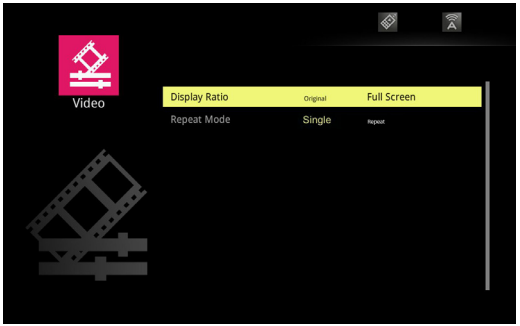
Language: Displays the current OSD (on-screen display) language. Using the up and down arrow keys, highlight the desired language and press the **Select** key.

Update: For Service Use Only.

Hostname: Displays the current host name for the projector. This will be displayed when using one of the wireless apps. To change the Hostname, highlight **Hostname** and press the **Select** key. Using the arrow keys and onscreen keyboard, highlight each alphanumeric character/symbol and press the **Select** key. Repeat until the hostname is complete. Press the **Menu** key to exit the keyboard.

UsbSwitch: Highlight and select to connect the projector directly to a PC or MAC for downloading photos/video/audio/office documents directly to the internal memory of the projector.

Video Submenu



To adjust the Video Display Ratio: Highlight **Display Ratio** and use the left and right arrow keys to select the desired mode. Press the **Select** key to enable. Options include: Original (native aspect ratio) and Full Screen (the image is adjusted to fit the entire screen).

To adjust the Video Repeat mode: Highlight **Repeat mode** and use the left and right arrow keys to select the desired mode. Press the **Select** key to enable. When Repeat Mode is **Repeat**, the videos will continue to play until you manually stop them. Options include: Single and Repeat.

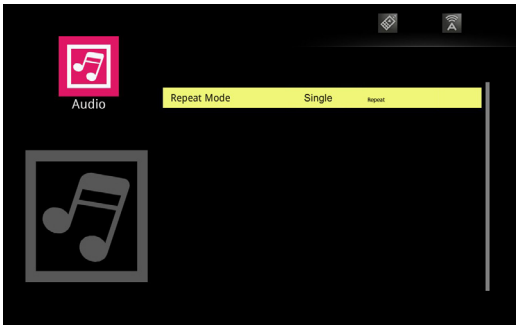
Photo Submenu

To adjust the Photo Display Ratio: Highlight **Display Ratio** and use the left and right arrow keys to select the desired mode. Press the **Select** key to enable. Options include: Original (native aspect ratio) and Full Screen (the image is adjusted to fit the entire screen).

To adjust the Slideshow mode: Highlight **Slideshow** and use the left and right arrow keys to select the desired mode. Press the **Select** key to enable. When the Slideshow mode is On, the photos will be displayed in a slideshow format and continue to play until you manually stop the slideshow. Options include: On and Off.

To adjust the timing of the Slideshow: Highlight **Slideshow Duration** and press the **Select** key. Use the up and down arrow keys to highlight the desired display duration for each image. Press the **Select** key to save your changes. Options include: 10 seconds, 30 seconds and 1 minute.

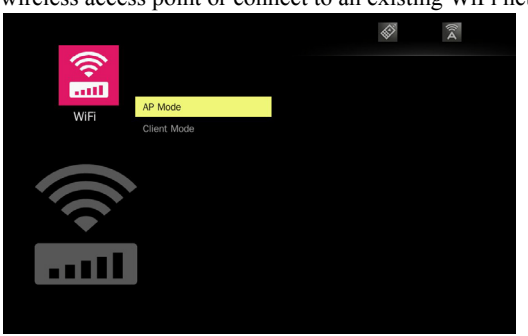
Audio Submenu



To adjust the Audio Repeat mode: Highlight **Repeat mode** and use the left and right arrow keys to select the desired mode. Press the **Select** key to enable. When Repeat Mode is set to **Repeat**, the audio files will continue to play until you manually stop them. Options include: Single and Repeat. Press the **Menu** key to return to the previous EZ Suite menu.

WiFi Submenu

The Settings>WiFi submenu allows you to setup the projector as a stand-alone wireless access point or connect to an existing WiFi network.



AP Mode

To setup a peer-to-peer network:

1. Highlight AP mode and press the **Select** key.
2. Use the left arrow to highlight **On** and press the **Select** key. The Settings menu for AP Mode will open.

   SSID: Displays the current SSID for the projector. To change the SSID, highlight **SSID** and press the **Select** key. Using the arrow keys and onscreen keyboard, highlight each an alphanumeric or symbol character and press the **Select** key. Repeat until the SSID is complete (Must be 1 to 20 characters). Press the **Menu** key to exit the keyboard.

   Security: Displays the current encryption mode. Default is Open (no security). Highlight and press the **Select** key to change to WPA or WPA2.

   PSK: Displays the current pre-shared key for encryption. To change the PSK, highlight PSK and press the **Select** key. Using the arrow keys and onscreen keyboard, highlight each an alphanumeric character or symbol and press the **Select** key. Repeat until the PSK is complete (Must be 8 to 20 characters). Press the **Menu** key to exit the PSK field.

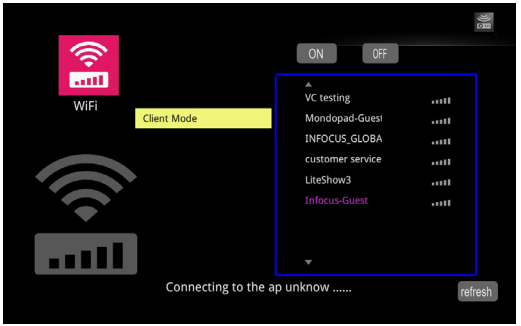
   Channel: Displays the current WiFi channel. To change the Channel, highlight **Channel** and press the **Select** key. Using the arrow keys and onscreen keyboard, highlight the numeric character and press the **Select** key. Repeat until the desired Channel is entered (1-14). Press the **Menu** key to exit the keyboard.

Auto: Auto channel switching is not supported.

3 Save the configuration by highlighting the checkmark and press the **Select** key.

4 If you want to exit without saving either press the **Menu** key or highlight the **X** and press the **Select** key. The AP mode icon will display in the upper right corner of the projected image.

Client Mode



To connect to an existing WiFi network:

1 Highlight **Client mode** and press the **Select** key.

2 Use the left arrow to highlight **On** and press the **Select** key. The Settings menu for Client Mode will open.

3 Highlight the desired SSID and press the **Select** key.

4 If necessary, select the correct PSK type for your network, ASCII or HEX16.

5 If necessary, select the correct index for your network (1-4).

6 If necessary enter the PSK, highlight **PSK** and press the **Select** key.

7 Using the arrow keys and onscreen keyboard, highlight an alphanumeric character or symbol, and press the **Select** key.

8 Repeat until the PSK is complete.

9 Press the **Menu** key to exit the keyboard.

10 To accept the changes highlight **OK** and press the **Select** key.

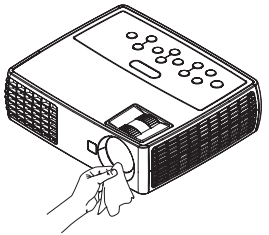
Maintenance

Cleaning the lens

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

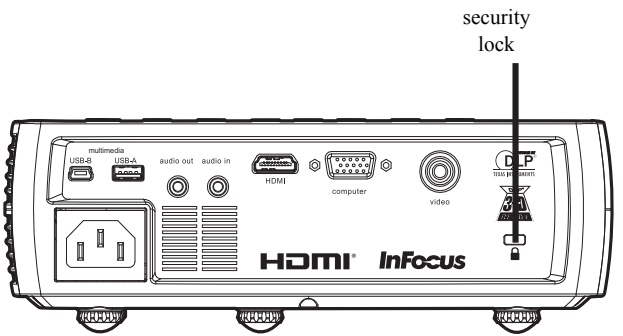
- Avoid using an excessive amount of cleaner, and don't apply the cleaner directly to the lens. Abrasive cleaners, solvents or other harsh chemicals might scratch the lens.

2 Lightly wipe the cleaning cloth over the lens in a circular motion.



Using the security lock

The projector has a security lock for use with a Cable Lock System. Refer to the information that came with the lock for instructions on how to use it.



Replacing the projection lamp

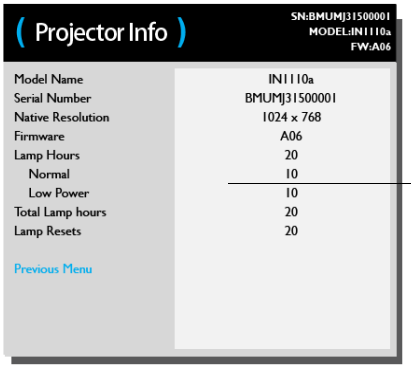
The lamp hours used timer in the Projector Info menu counts the number of hours the lamp has been in use. Twenty hours before the lamp life expires, the message “Change lamp” appears on the screen at startup.

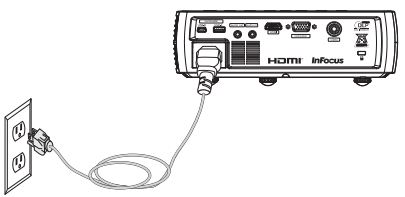
- **NOTE**: You can order new lamps from **www.infocus.com** (in select areas), your retailer or your dealer. Only genuine InFocus lamps are tested for use in this projector. InFocus is not liable for the performance, safety or certification of any other lamps. The use of other lamps violates the projector warranty and voids all certification marks on this projector.

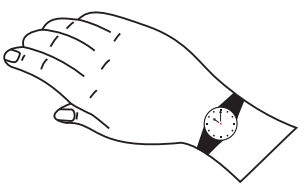
WARNINGS:

- To avoid burns, allow the projector to cool for at least 60 minutes before you replace the lamp.
- Only genuine InFocus lamps are tested with this projector. Use of other lamps may cause electrical shock and fire.
- Unplug the power cord before replacing 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. Before replacing a ruptured lamp, clean the lamp compartment and dispose of cleaning materials. Wash hands after lamp replacement.

  Hg – Lamp contains mercury. Manage in accordance with local disposal laws. See **www.lamprecycle.org**.







1 Turn off the projector and unplug the power cord.

2 Wait 60 minutes to allow the projector to cool thoroughly.

3 Turn the projector upside down on a soft cloth so that the lamp door is facing you.

4 Loosen the two captive screws on the lamp door and lift the door off.

5 Loosen the two captive screws that attach the lamp housing to the projector.

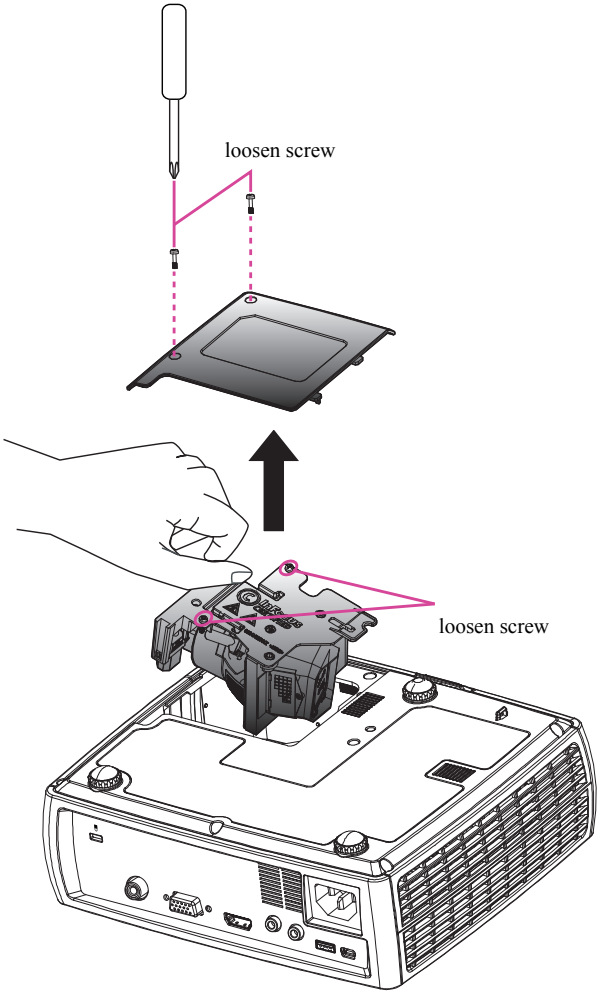
6 Carefully remove the lamp housing. Dispose of the lamp in an environmentally proper manner.

7 Install the new lamp housing and tighten the screws.

8 Replace the lamp door.

9 Plug in the power cord and press the Power button to turn the projector back on.

10 To reset the lamp hour timer, navigate to the **Advanced > Status/Service** menu and select **Reset Lamp Hours**. See page 31 for details.



INDEX

Numerics
3D Control
    3D 26
    3D Sync Invert 26

A
Advanced > Image > 3D Control Menu 26

B
Basic menu 25
    Aspect Ratio 25
    Auto Image 25
    Brightness 25
    Contrast 25
    Keystone 25
    Preset 25
    Sharpness 25
    Volume 25

C
Cleaning the lens 46
Color 26
    Blue Gain 26
    Color 26
    Color Space 26
    Color Temp 26
    Gamma 26
    Green Gain 26
    Red Gain 26
    Tint 26
    White Peaking 26
Computer In connector 7
Connector panel 5
    Composite video 5
    HDMI 5
    MINI USB Type B connector 5
    VESA computer 5
Contacting InFocus 18
Custom key 22
Customer service contact information 18
Customizing the projector 23

D
DVDs 25

F
Factory Reset 31
Focus 9

H
HDTV 25

I
Image
    Optimization 22
    Size 6

K
Keypad buttons 21
    Auto Image 21
    Keystone 21
    Menu 21
    Power 21
    Presets 21

Select 21
Source 21
Up/Down/Left/Right arrows 21
Keystone, adjusting 9

L
Lamp hours, resetting 48
Laptop video port activation 8
LEDs 11

M
Maintaining the projector 46
Menu usage 24

O
Optimizing images 22
Optimizing video 23
Overscan 26, 27, 28, 29, 30

P
PC 26
Force Wide 26
PC Screen Saver 26
Phase 26
Tracking 26
Positioning the projector 6
Power connector 7
Power cord 7
Presentation features 22
Projection distance 6
Projector
Connector panel 5
Customization 23
Image size 6
Keypad buttons 21
Maintenance 46
Menus 24
Offset 6
Positioning 6
Registering 4
Reset 31
Safety considerations 3
Security lock 46
Setting up 6
Shutting down 11
Status Indicator Panel 11
Troubleshooting problems 11

R
Registering your projector 4
Remote control 19
Auto Image 19
Blank 19
Custom 19
Mute 19
Presets 19
Resize 19
Source 19
Volume 19
Resetting the projector 31

S
Security lock 46
Service 31
Service Code 31
Settings menu 27

Sharpness 25
Shutting down the projector 11
Status Indicator Panel 11

T
Troubleshooting 11

U
USB 7

V
Video 26
    Overscan 26
Video devices, connecting 10
Video optimizing 23
Video Standard 27
Volume button 20

W
Warranty 18

Z
Zoom 9