



PR5030
DLP® Projector

USER'S MANUAL

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Important Safety Information

Congratulations on purchasing the Planar DLP[®] projector!

Important:

It is strongly recommended that you read this section carefully before using the projector. These safety and usage instructions will ensure that you enjoy many years of safe use of the projector. Keep this manual for future reference.

Symbols Used

Warning symbols are used on the unit and in this manual to alert you of hazardous situations.

The following styles are used in this manual to alert you to important information.

Note:

Provides additional information on the topic at hand.

Important:

Provides additional information that should not be overlooked.

Caution:

Alerts you to situations that may damage the unit.

Warning:

Alerts you to situations that may damage the unit, create a hazardous environment, or cause personal injury.

Throughout this manual, component parts and items in the OSD menus are denoted in bold font as in this example:

“Push the **Menu** button on the remote control to open the **Main** menu.”

Remote Control

Some remote controls have a laser for pointing out items on a screen.

DANGER: Do not point the laser in the eyes. Doing so can damage the eyes permanently.

General Safety Information

- Do not open the unit case. Aside from the projection lamp, there are no user-serviceable parts in the unit. For servicing, contact qualified service personnel.
- Follow all warnings and cautions in this manual and on the unit case.
- The projection lamp is extremely bright by design. To avoid damage to eyes, do not look into the lens when the lamp is on.
- Do not place the unit on an unstable surface, cart, or stand.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- Do not place heavy objects such as books or bags on the unit.

Power Safety

- Only use the supplied power cord.
- Do not place anything on the power cord. Place the power cord where it will not be in the way of foot traffic.
- Remove the batteries from the remote control when storing or not in use for a prolonged period.

Replacing the Lamp

Replacing the lamp can be hazardous if done incorrectly. Refer to *Replacing the Projection Lamp* on page 35 for clear and safe instructions for this procedure. Before replacing the lamp:

- Unplug the power cord.
- Allow the lamp to cool for about one hour.

Important Recycle Instructions:



Lamp(s) inside this product contain mercury. This product may contain other electronic waste that can be hazardous if not disposed of properly. Recycle or dispose in accordance with local, state, or federal Laws. For more information, contact the Electronic Industries Alliance at WWW.EIAE.ORG. For lamp specific disposal information check WWW.LAMPRECYCLE.ORG.

Cleaning the Projector

- Unplug the power cord before cleaning. Refer to “Cleaning the Projector” on page 39.
- Allow the lamp to cool for about one hour.

Regulatory Warnings

Before installing and using the projector, read the regulatory notices in the “Regulatory Compliance” section on page 49.

Symbol Explanations



DISPOSAL: Do not use household or municipal waste collection services for disposal of electrical and electronic equipment. EU countries require the use of separate recycling collection services.

Main Features

- Lightweight unit, easy to pack away and transport
- Compatible with all major video standards including NTSC, PAL, and SECAM
- A high brightness rating allows for presentations in daylight or in lit rooms
- Supports resolutions up to WXGA at 16.7 million colors to deliver crisp, clear images
- Flexible setup allows for front, rear & ceiling mounted projections
- Line-of-vision projections remain square, with advanced keystone correction for angled projections
- Input source automatically detected

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Cables, Replacement Lamps and Accessories

To find cables, replacement lamps and accessories for your Planar projector, LCD monitor, touchscreen or other Planar products visit our online store at www.PlanarOnline.com or find other stores who carry Planar products at <http://www.planar.com/howtobuy>

About this manual

This manual is intended for end users and describes how to install and operate the DLP® projector. Wherever possible, relevant information—such as an illustration and its description—has been kept on one page. This printer-friendly format is both for your convenience and to help save paper, thereby protecting the environment. It is suggested that you only print sections that are relevant to your needs.

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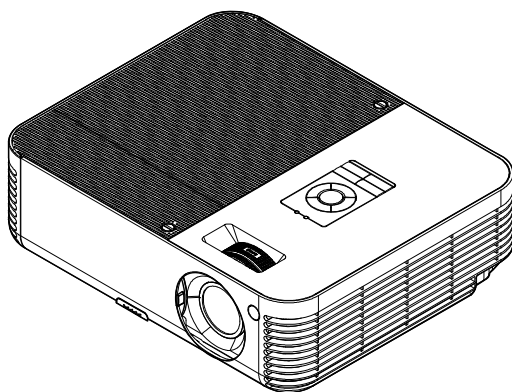
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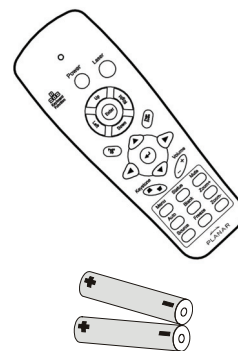
Getting Started

Packing Checklist

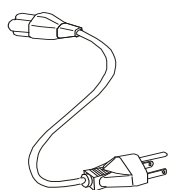
Carefully unpack the projector and check that the following items are included:



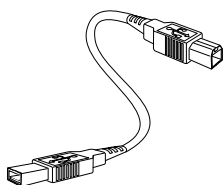
DLP® projector



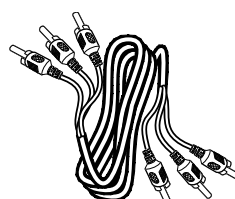
Remote control
(with two AAA batteries)



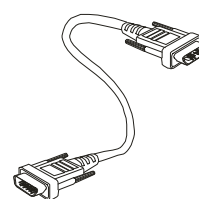
Power cord



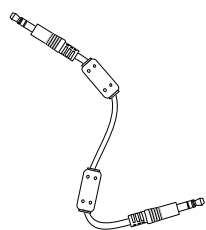
USB cable
(USB type A-to-B USB)



Composite video cable
(RCA 3-to-RCA 3)



Computer cable
(VGA-VGA)



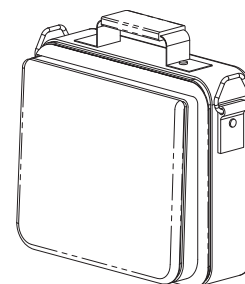
Audio cable
(mini jack-to-mini jack)



CD-ROM (This User's
manual)



Users Guide



Carrying case

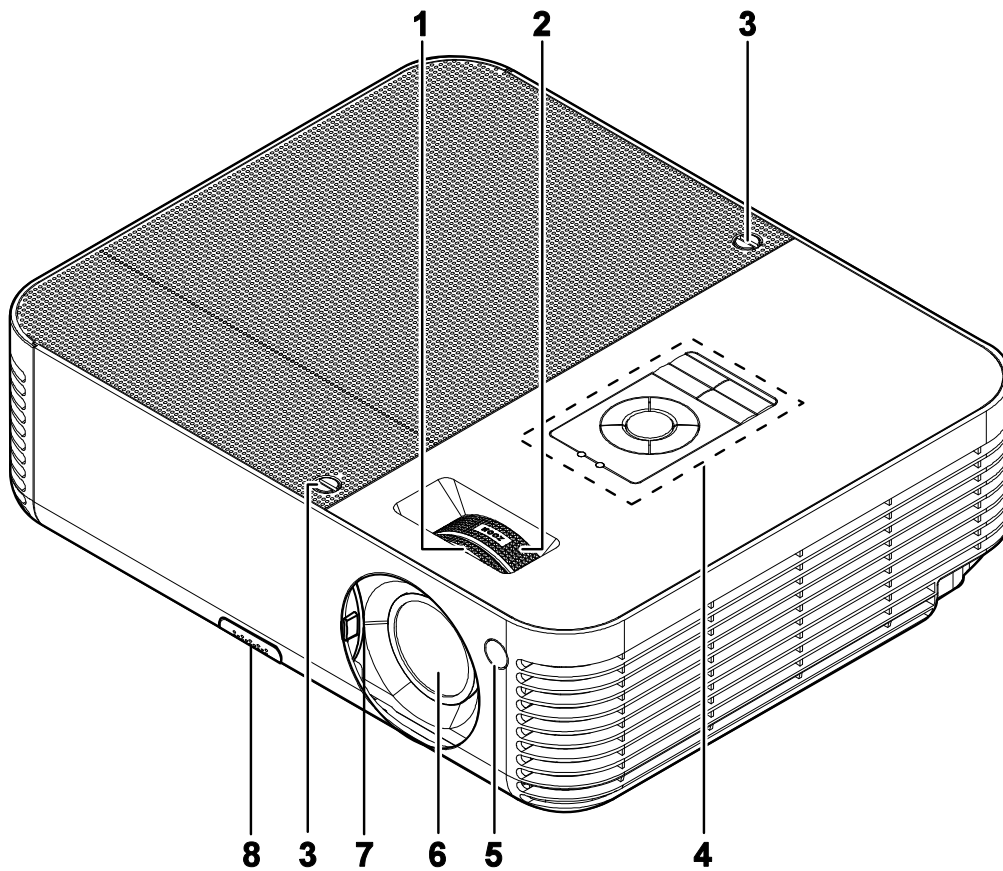
Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work.

Caution:

Avoid using the projector in dusty environments.

Views of Projector Parts

Front-right View

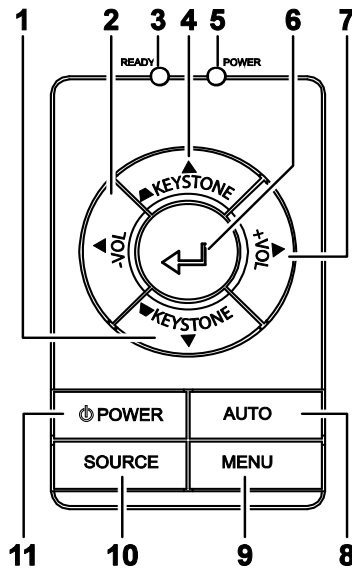


| Item | Label | Description | See page: |
|------|-------------------------------------|--|-----------|
| 1. | Focus | Focuses the projected image | 17 |
| 2. | Lens zoom | Enlarges the projected image | 17 |
| 3. | Screws | Holds lamp to projector | 35 |
| 4. | See “Top view—OSD buttons and LEDs” | | 3 |
| 5. | Front IR receiver | Receiver for IR signal from remote control | 7 |
| 6. | Lens | Slide lens cap before use. | |
| 7. | Lens cover | Slide across to protect lens when not in use | |
| 8. | Height-adjuster button | Push to release height adjuster | 16 |

Important:

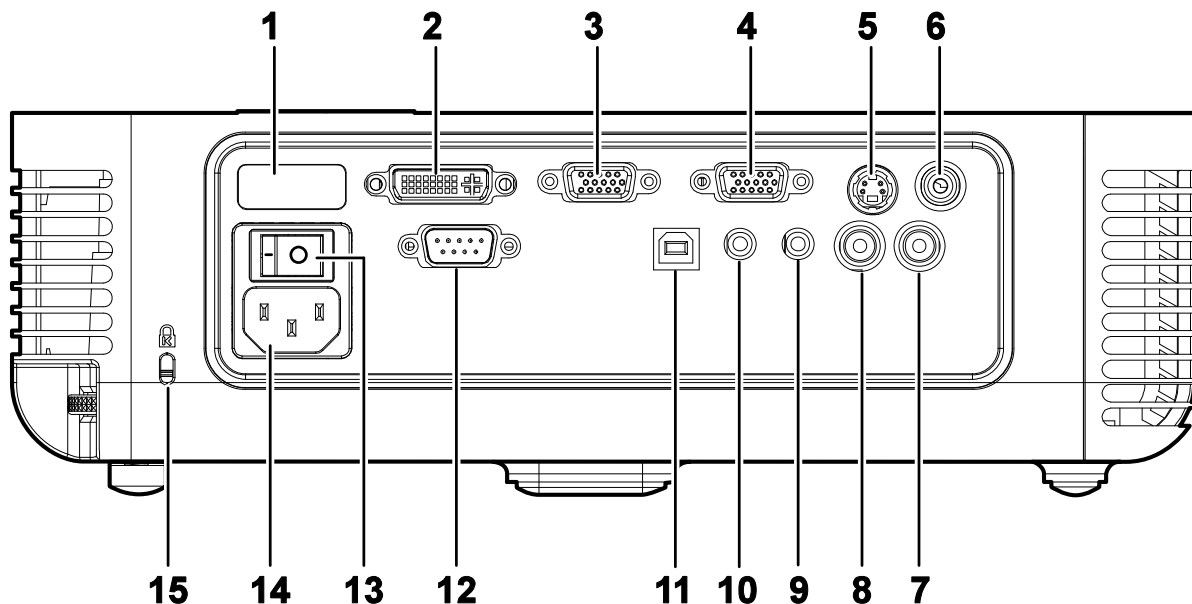
Ventilation openings on the projector allow for good air circulation, which keeps the projector lamp cool. Do not obstruct any of the ventilation openings.

Top view—On-screen Display (OSD) buttons and LEDs



| Item | Label | Description | See page: |
|------|--------------------------|---|--|
| 1. | Keystone/ Down cursor | Corrects image-trapezoid (wider top) effect Navigates and changes settings in the OSD | 17, 18 |
| 2. | VOL-/ Left cursor | Decreases volume Navigates and changes settings in the OSD | 17, 18 |
| 3. | Ready LED | Orange | Lamp ready—you can safely turn on or off the projector |
| | | Flashing | Lamp not ready—do not press the power button |
| 4. | Keystone/ UP cursor | Corrects image-trapezoid (wider bottom) effect Navigates and changes settings in the OSD | 17, 18 |
| 5. | Power LED | Green | Unit is powered on and working correctly |
| | | Off | Unit is powered off |
| | | Flashing | Operational error code (refer to “LED Error Messages” on page 42) |
| 6. | Enter | Changes settings in the OSD | 18 |
| 7. | VOL+/ Right cursor | Increases volume Navigates and changes settings in the OSD | 17, 18 |
| 8. | Auto | Optimizes image size, position, and resolution Navigates and changes settings in the OSD | 13 |
| 9. | Menu | Opens and exits the OSD | |
| 10. | Source | Detects the input device | |
| 11. | Power | Turns the projector on or off | |

Rear view



| Item | Label | Description | See page: |
|------|------------------|--|-----------|
| 1. | Rear IR receiver | Receiver for IR signal from remote control | 7 |
| 2. | DVI-I | Connect a DVI-I cable (not supplied) from a computer | 11 |
| 3. | VGA IN | Connect a VGA cable (supplied) from a computer | |
| 4. | VGA OUT | Connect to a monitor (not supplied) | |
| 5. | S-video | Connect the S-video cable (not supplied) from a video device | |
| 6. | Video | Connect a composite video cable (supplied) from a video device. | |
| 7. | Audio in-R | Connect the audio cable (supplied) from an audio input device. | |
| 8. | Audio in-L | Connect the audio cable (supplied) from an audio input device. | |
| 9. | Audio-in | Connect an audio cable (supplied) from the computer’s audio-out connector. | |
| 10. | Audio-out | Audio loop-thru | |
| 11. | USB | Connect the USB cable (supplied) from a computer | |
| 12. | RS-232 | Installation control | |

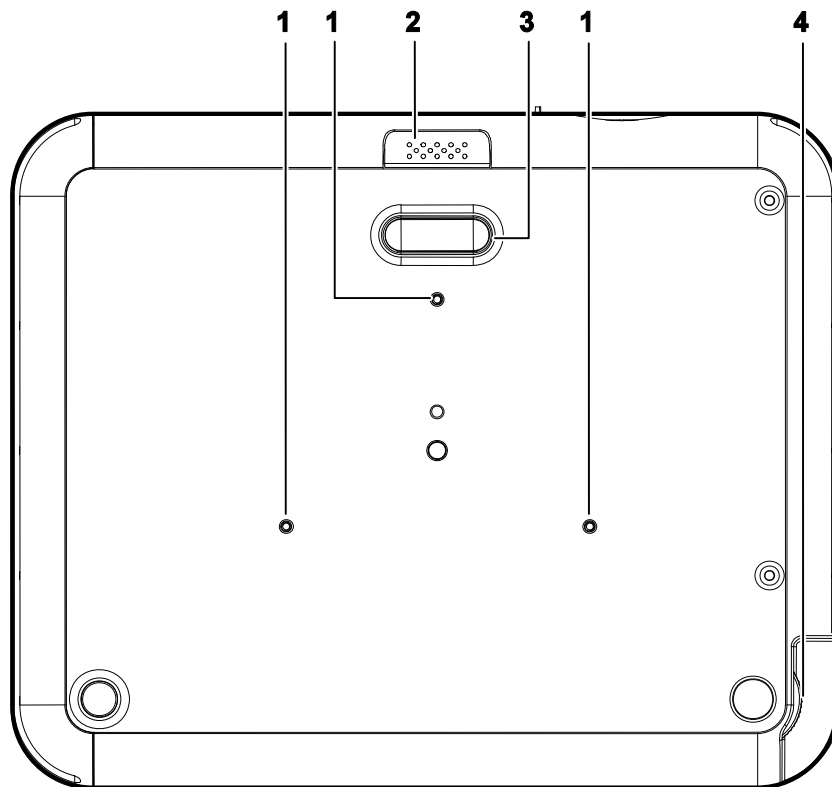
| Item | Label | Description | See page: |
|------|---------------|---|-----------|
| 13. | Power Switch | Turns the power on and off | 13 |
| 14. | Power | Connect the power cord (supplied) | 13 |
| 15. | Security Lock | Secure to permanent object with a Kensington® Lock system | 40 |

Note:

If your video equipment has both S-video and RCA jacks (composite video) connect to the S-video connector.

S-video provides a better quality signal.

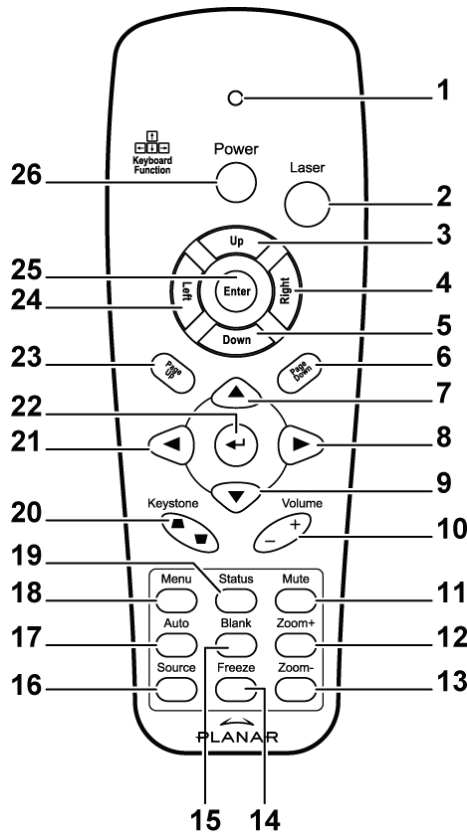
Bottom view



| Item | Label | Description | See page: |
|------|------------------------|---|-----------|
| 1. | Ceiling support holes | Contact your dealer for information on mounting the projector on a ceiling. | |
| 2. | Height adjuster button | Push to release height adjuster | 16 |
| 3. | Height adjuster | Adjuster drops down when adjuster button is pushed | |
| 4. | Tilt adjuster | Adjust angle of the picture | |

Note:
 When installing, ensure that you use only UL Listed ceiling mounts.

Remote Control Parts



Important:

1. Avoid using the projector with bright fluorescent lighting turned on. Certain high-frequency fluorescent lights can disrupt remote control operation.

2. Be sure nothing obstructs the path between the remote control and the projector. If the path between the remote control and the projector is obstructed, you can bounce the signal off certain reflective surfaces such as projector screens.

3. The buttons and keys on the projector have the same functions as the corresponding buttons on the remote control. This user’s manual describes the functions based on the remote control.

| Item | Label | Description | See page: |
|------|------------|---|-----------|
| 1. | Status LED | Lights when the remote control is used | |
| 2. | Laser | Use as on screen pointer. DO NOT POINT IN EYES. | |
| 3. | Up | Up arrow when connected through USB to a PC | |
| 4. | Right | Right arrow when connected through USB to a PC | |
| 5. | Down | Down arrow when connected through USB to a PC | |
| 6. | Page Down | Page down when connected through USB to a PC | |
| 7. | Up cursor | Navigates and changes settings in the OSD | 18 |

| Item | Label | Description | See page: |
|-------------|---------------------|--|------------------|
| 8. | Right cursor | Navigates and changes settings in the OSD | 18 |
| 9. | Down cursor | | |
| 10. | Volume +/- | Adjusts volume | 17 |
| 11. | Mute | Mutes the built-in speaker | |
| 12. | Zoom+ | Zoom in | |
| 13. | Zoom- | Zoom out | |
| 14. | Freeze | Freeze/unfreezes the on-screen picture | |
| 15. | Blank | Makes the screen blank | |
| 16. | Source | Detects the input device | |
| 17. | Auto | Auto adjustment for phase, tracking, size, position | |
| 18. | Menu | Opens the OSD | 18 |
| 19. | Status | Opens the OSD Status menu (the menu only opens when an input device is detected) | |
| 20. | Keystone top/bottom | Corrects image-trapezoid (wider top/bottom) effect | 17 |
| 21. | Left cursor | Navigates and changes settings in the OSD | 18 |
| 22. | Enter | Changes settings in the OSD | |
| 23. | Page Up | Page up when connected through USB to a PC | |
| 24. | Left | Left arrow when connected through USB to a PC | |
| 25. | Enter | Enter key when connected through USB to a PC | |
| 26. | Power | Turns the projector on or off | 13 |

Note:

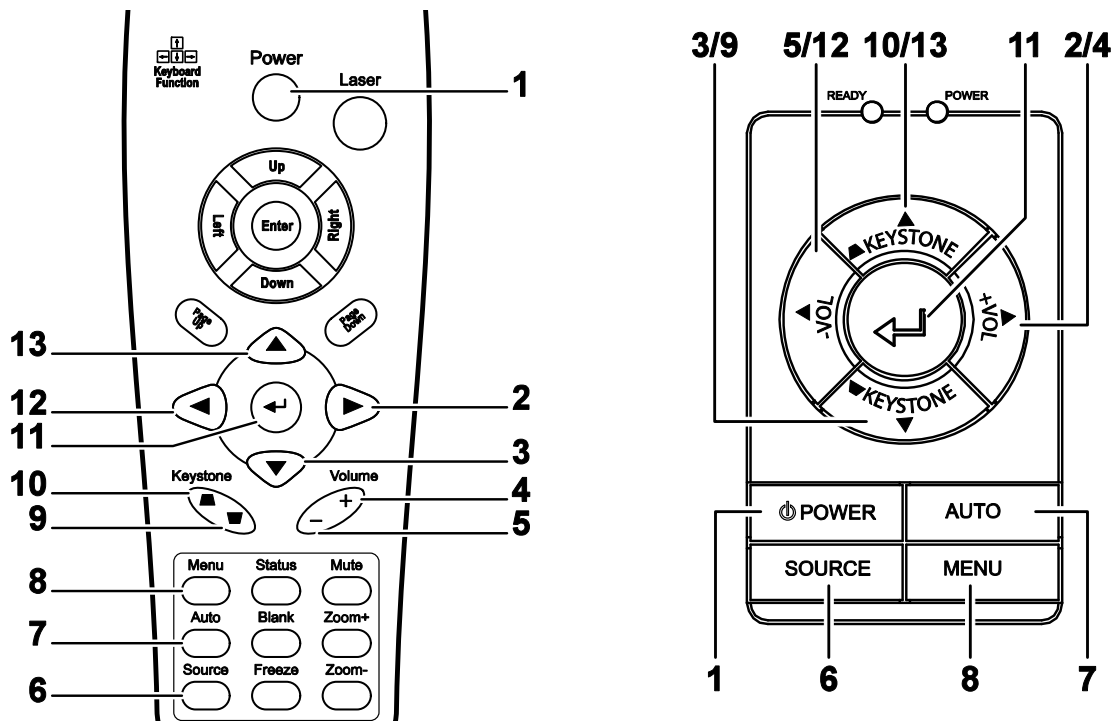
The remote control can only interface with a computer when connected to the computer through a USB cable connection. The computer cable connects a computer to the projector for display purposes only.

Remote Control Operating Range

The remote control uses infrared transmission to control the projector. It is not necessary to point the remote directly at the projector. Provided you are not holding the remote perpendicular to the sides or the rear of the projector, the remote will function well within a radius of about 10 meters (33 feet) and 30 degrees above or below the projector level. If the projector does not respond to the remote control, move a little closer.

Projector and Remote Control Buttons

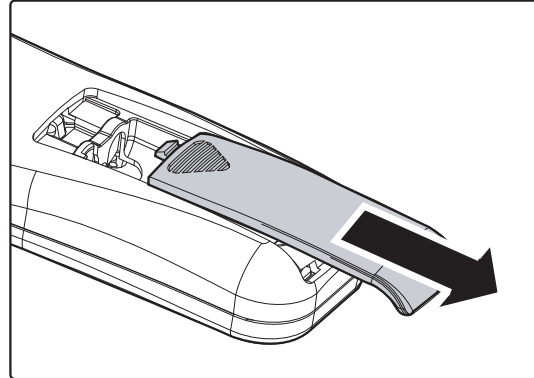
The projector can be operated using the remote control or the buttons on the top of the projector. All operations can be carried out with the remote control; however the buttons on the projector are limited in use. The following illustration shows the corresponding buttons on the remote control and on the projector.



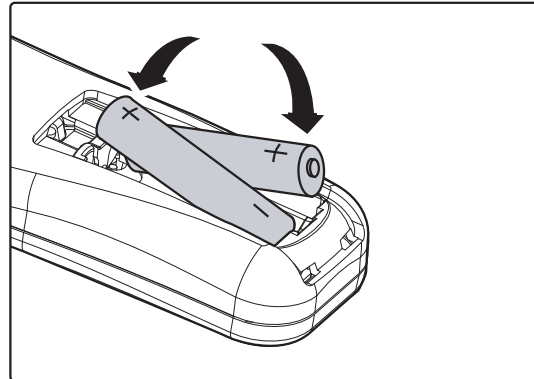
Some buttons on the projector have two functions. For example, item 10/13 on the projector functions both as a keystone button and as the up cursor key in OSD menus.

Inserting the Remote Control Batteries

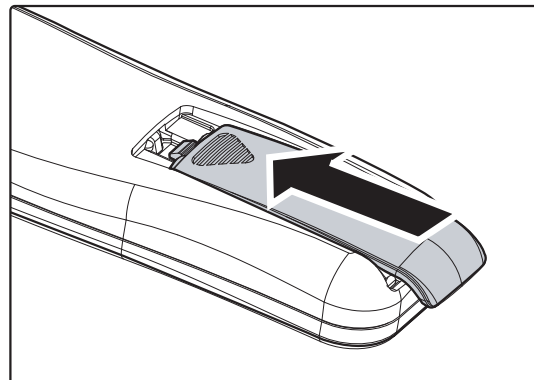
1. Remove the battery compartment cover by sliding the cover in the direction of the arrow.



2. Insert the supplied batteries taking note of the polarity (+/-) as shown here.



3. Replace the cover.

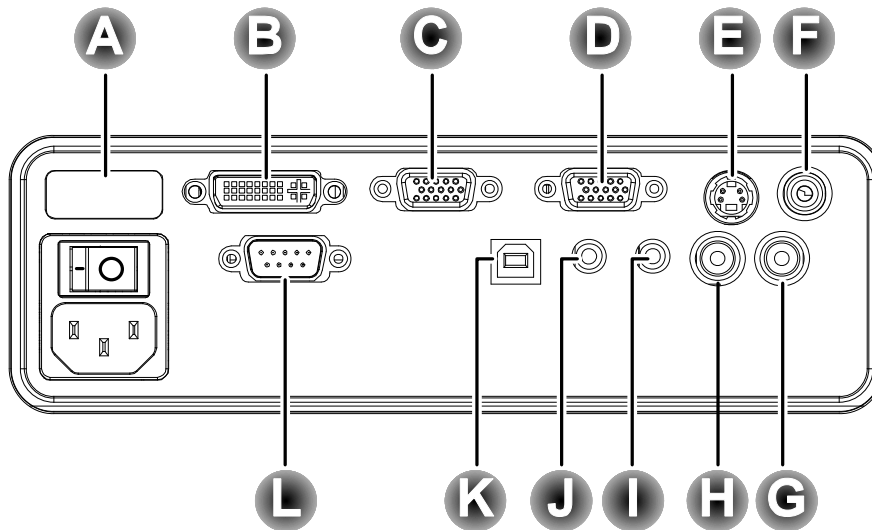


Caution:




1. Only use AAA batteries. (Alkaline is better)
2. Dispose of used batteries according to local ordinance regulations.
3. Remove the batteries when not using the projector for prolonged periods.

Connecting Input Devices

A PC or notebook computer as well as video devices can be connected to the projector at the same time. Video devices include DVD, VCD, and VHS players, as well as movie camcorders and digital still cameras. Check the user manual of the connecting device to confirm it has the appropriate output connector.



| Item | Label | Description |
|------|------------|--|
| A | Rear IR | Receiver for IR signal from remote control. |
| B | DVI-I | Connect DVI-I cable (not supplied) from a computer. |
| C | VGA in | Connect a VGA cable (supplied) from a computer. |
| D | VGA out | Connect a VGA cable (not supplied) to a monitor. |
| E | S-video | Connect S-video cable (not supplied) from a video device. |
| F | Video | Connect a composite video cable (supplied) from a video device. |
| G | Audio in-R | Connect the audio cable (supplied) from an audio input device. |
| H | Audio in-L | Connect the audio cable (supplied) from an audio input device. |
| I | Audio-in | Connect an audio cable (supplied) from the computer’s audio-out connector. |

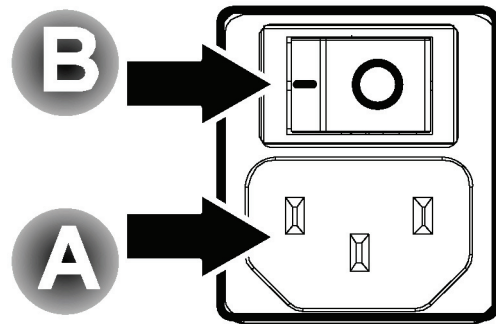
| Item | Label | Description |
|---|-----------|---|
|  | Audio-out | Audio loop-thru |
|  | USB | Connect the supplied USB cable (supplied) from a computer for USB mouse function and firmware upgrades. |
|  | RS-232 | Reserved for installation control. |

Warning:

As a safety precaution, disconnect all power to the projector and connecting devices before making connections.

Starting and Shutting down the Projector

1. Slide the lens cover.
2. Connect the power cord to the projector
[A] Connect the other end to a wall outlet.
 Switch **[B]** from off (**O**) to on (**—**)
3. The POWER and READY LEDs on the projector turn on.
 Turn on the connected devices.
4. Ensure the Ready LED is on a steady (not flashing) orange and then press the **Power** button to turn on the projector.



The projector splash screen displays and connected devices are detected. If the connected device is a PC, press the appropriate keys on the computer keyboard to switch the display output to the projector. (Check the user manual of the PC to determine the appropriate Fn key combination to change display output.)



See “Setting an Access Password (Security Lock)” on page 15 if Security Lock is enabled.

5. If more than one input device is connected, press the **Source** button to switch among devices (DVD and HDTV are supported through the VGA connector).

| Source | Description |
|--------|-------------|
|--------|-------------|

RGB: Analog RGB
 Component: DVD input YCbCr / YPbPr , or HDTV input YPbPr via HD15 connector

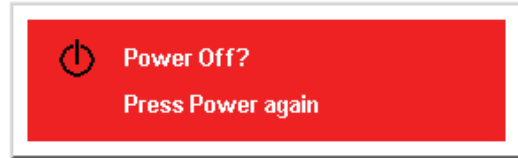
Composite Video: Traditional composite video

S-Video: Super video (Y/C separated)

DVI: Analog RGB , DVI



6. When the “Power Off?/Press Power again” message appears, press the **Power** button. The projector turns off.



7. Turn off the main **Power** switch when the **Ready** LED stops flashing.

Caution:

Do not unplug the power cord until the Ready LED stops flashing, indicating the projector has cooled down.

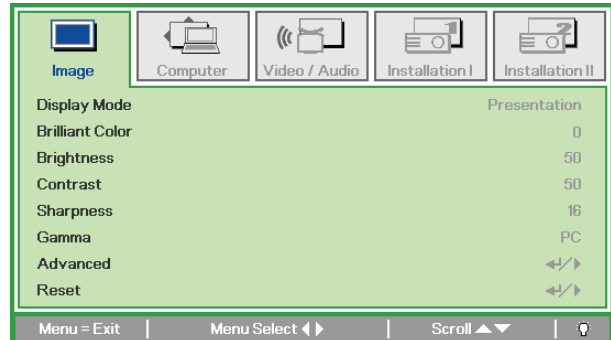
Setting an Access Password (Security Lock)

You can use the cursor (arrow) buttons to set a password and prevent unauthorized use of the projector. When enabled, the password must be entered after you power on the projector. (See “Navigating the OSD” on page 18 and “Setting the OSD Language” on page 19 for help on using OSD menus.)

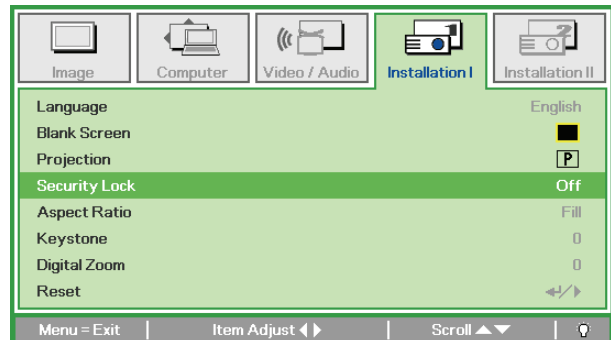
Important:

Keep the password in a safe place. Without the password, you will not be able to use the projector. If you lose the password, contact your reseller for information on clearing the password.

1. Press the **Menu** button to open the OSD menu.

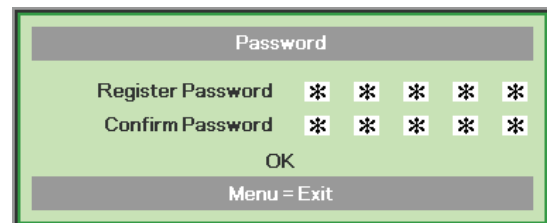


2. Press the cursor ◀▶ button to move to the **Installation I** menu. Press the cursor ▼▲ button to move to the Security Lock.



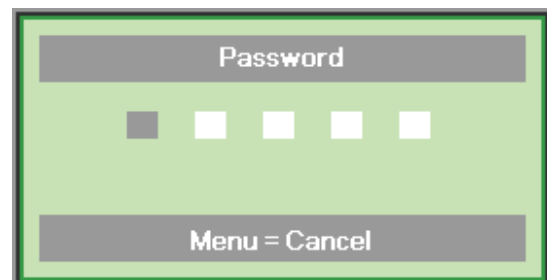
3. Press the cursor ◀▶ button to enable or disable security lock function. A password dialog box automatically appears.

4. You can only use the following four cursor buttons: ▼▲◀▶ in the password fields. You can use any combination including the same arrow five times, but not less than five. Press the cursor buttons in any order to set the password. When you confirm the password, **OK** appears.



Every time you start the projector, a password dialog box appears.

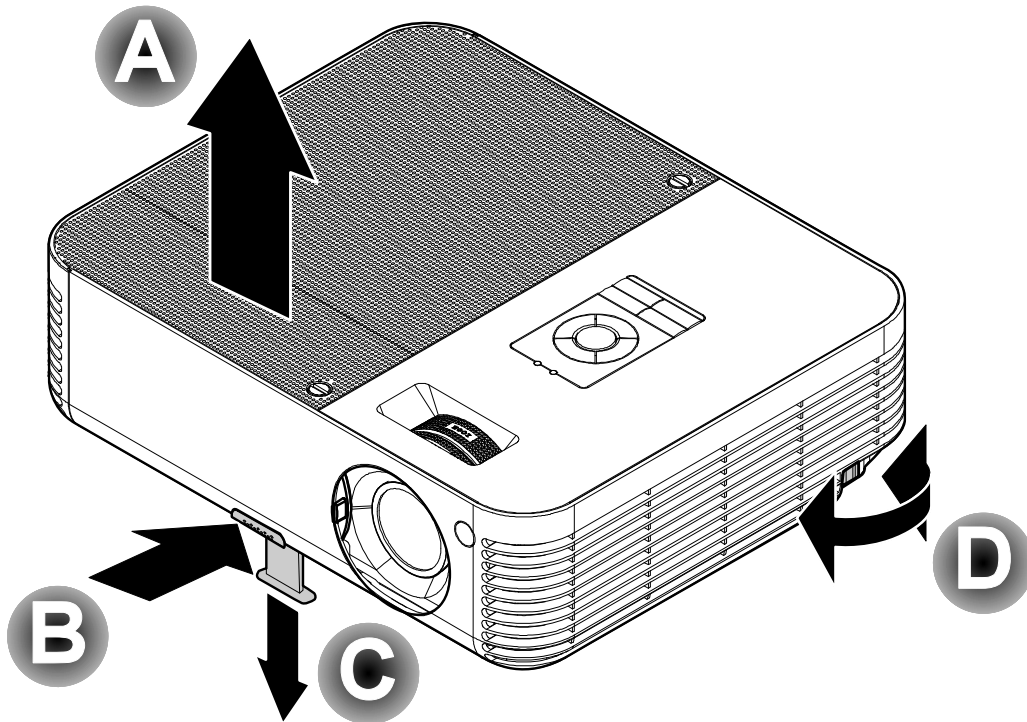
Enter the password in the order you set it on step 4. (Press the **Menu** button to cancel if you enter the wrong password.)



Adjusting the Projector Level

Take note of the following when setting up the projector:

- *The projector table or stand should be level and sturdy.*
- *Position the projector so that it is perpendicular to the screen.*
- *Be sure cables are not in the way or can cause the projector to be knocked over.*



- 1.** To raise the level of the projector, lift the projector **[A]** and press the height-adjuster button **[B]**.

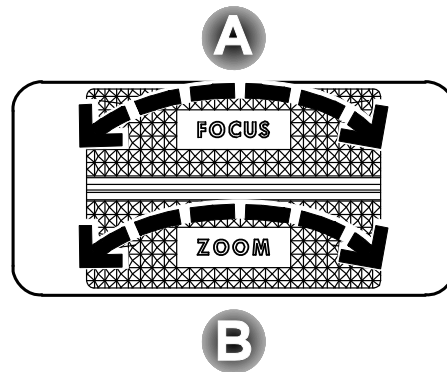
The height adjuster drops down **[C]**.

- 2.** To lower the level of the projector, press the height-adjuster button and push down on the top of the projector.

- 3.** To adjust the angle of the picture, turn the tilt adjuster **[D]** right or left until desired angle has been achieved.

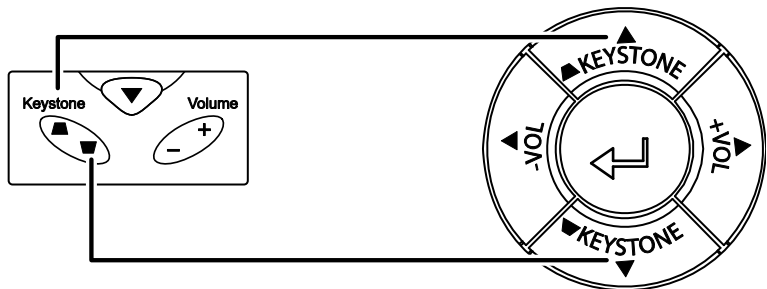
Adjusting the Zoom, Focus and Keystone

1. Use the **Image-zoom** control (on the projector only) to resize the projected image and screen size **B**.
2. Use the **Image-focus** control (on the projector only) to sharpen the projected image **A**.



3. Press the **Keystone** button on the remote control or keypad. The keystone control appears on the display.

Note: When using the keypad, the OSD menu must be off.



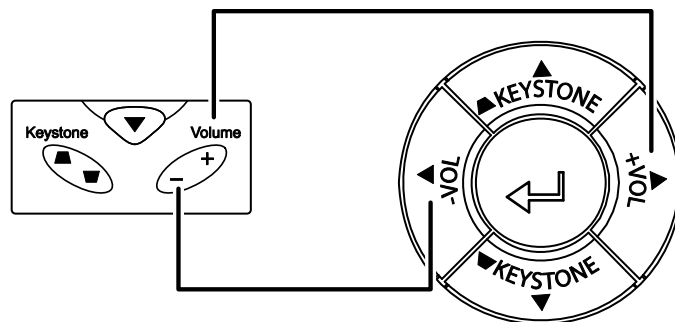
4. Use the **Keystone** button to correct image distortion.



Adjusting the Volume

1. Press the **Volume +/-** button on the remote control or keypad. The volume control appears on the display.

Note: When using the keypad, the OSD menu must be off.



2. Use the **Volume +/-** button to adjust the level.



3. Press the **Mute** button to turn off the volume. (For remote only)



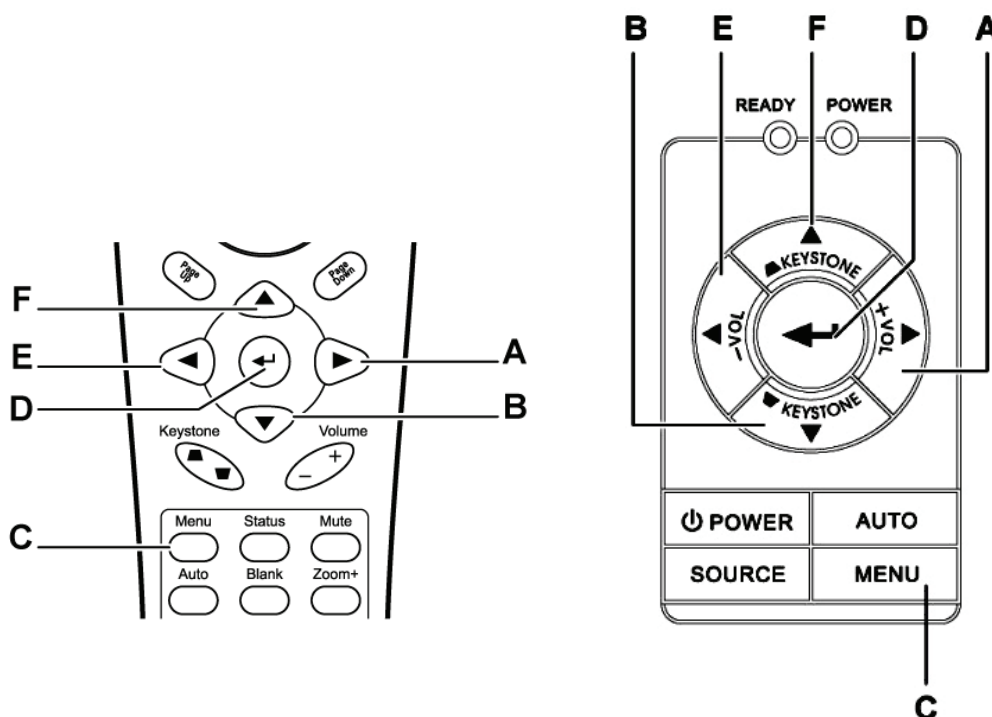
On-Screen Display (OSD) Menu Settings

OSD Menu Controls

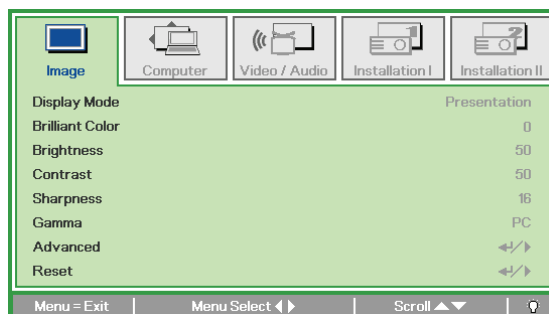
The projector has an OSD that lets you make image adjustments and change various settings.

Navigating the OSD

You can use the remote control cursor buttons or the buttons on the top of the projector to navigate and make changes to the OSD. The following illustration shows the corresponding buttons on the remote control and on the projector.



1. To open the OSD, press the **Menu** button.
2. There are five menus. Press the cursor ◀▶ button to move through the menus.
3. Press the cursor ▼▲ button to move up and down in a menu.
4. Press ◀▶ to change values for settings.
5. Press **Menu** to close the OSD or leave a submenu.



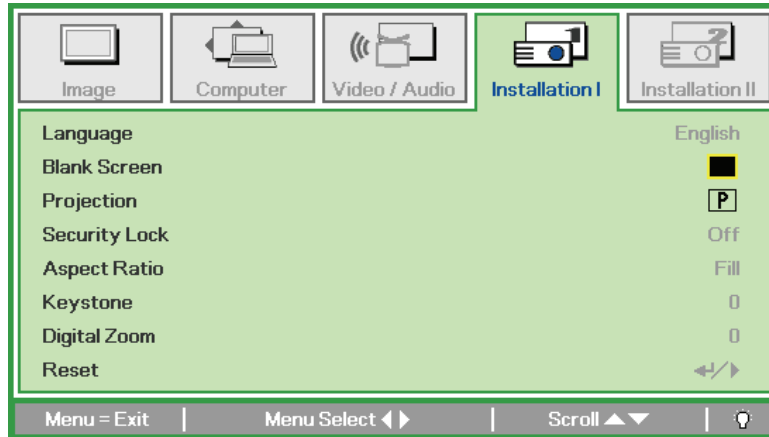
Note:

Depending on the video source not all items in the OSD are available. For example, the **Horizontal/Vertical Position** items in the **Computer** menu can be modified when connected to a PC. Items that are not available cannot be accessed and are grayed out.

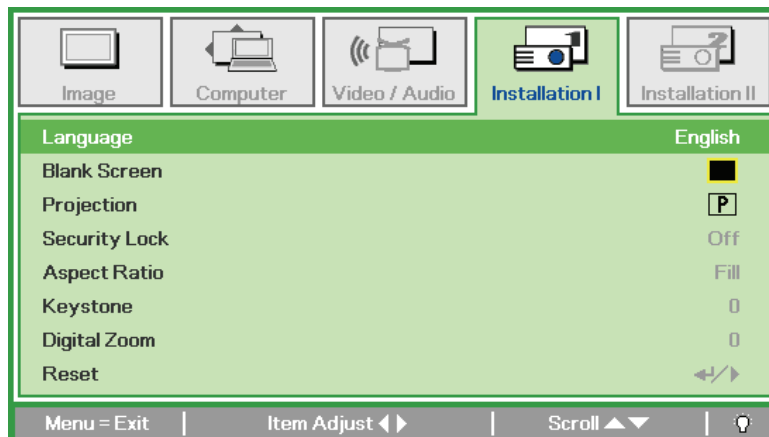
Setting the OSD Language

You may want to reference the OSD on your projector while reading this section. Set the OSD language to your preference before continuing. (The default language is English.)

1. Press the **Menu** button. Press the cursor ◀▶ button to navigate to **Installation I**.



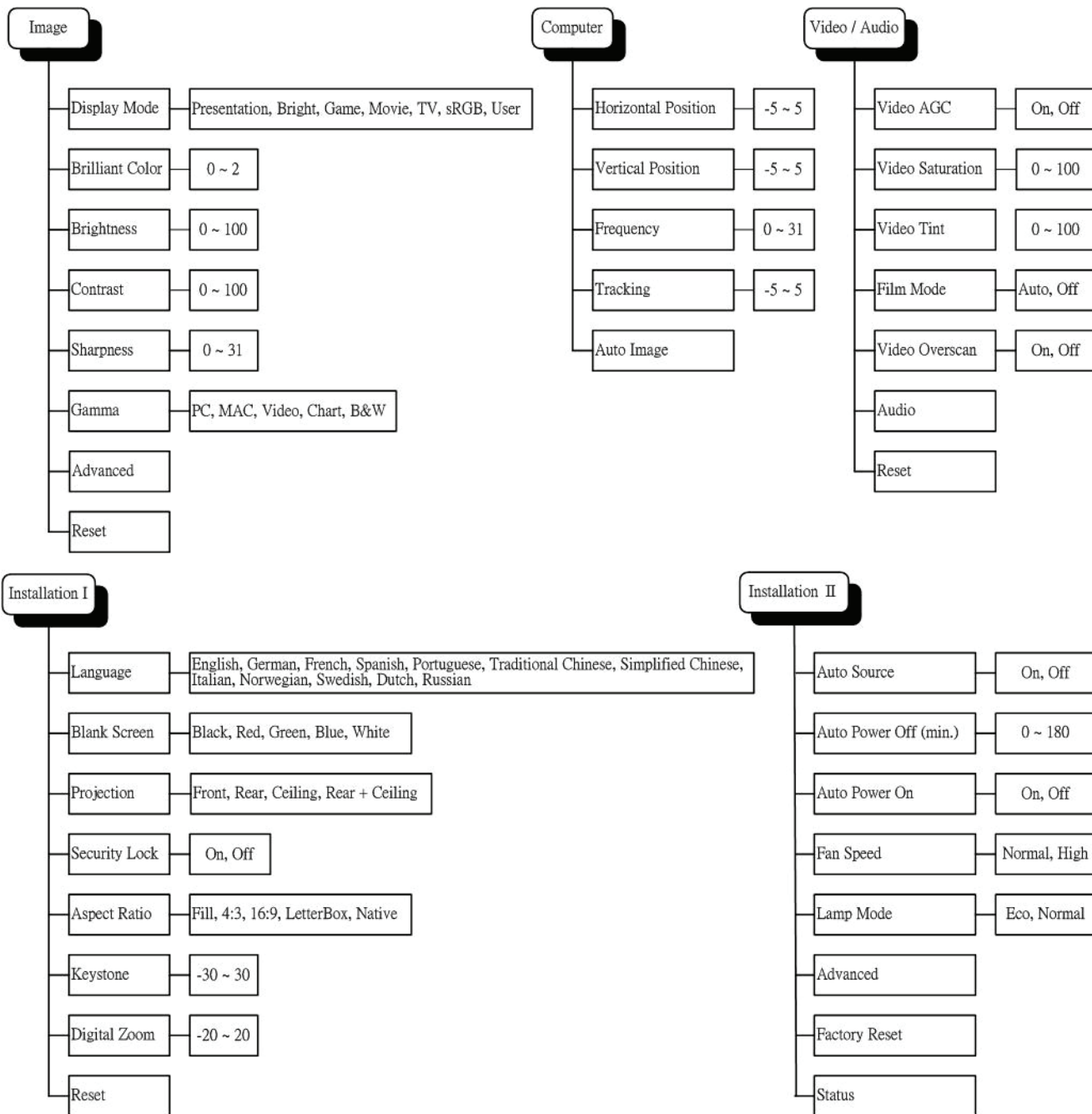
2. Press the cursor ▼▲ button until **Language** is highlighted.



3. Press the ◀▶ button until your language is displayed.
4. Press the **Menu** button to close the OSD.

OSD Menu Overview

Use the following illustration to quickly find a setting or determine the range for a setting.



OSD Sub-Menu Overview

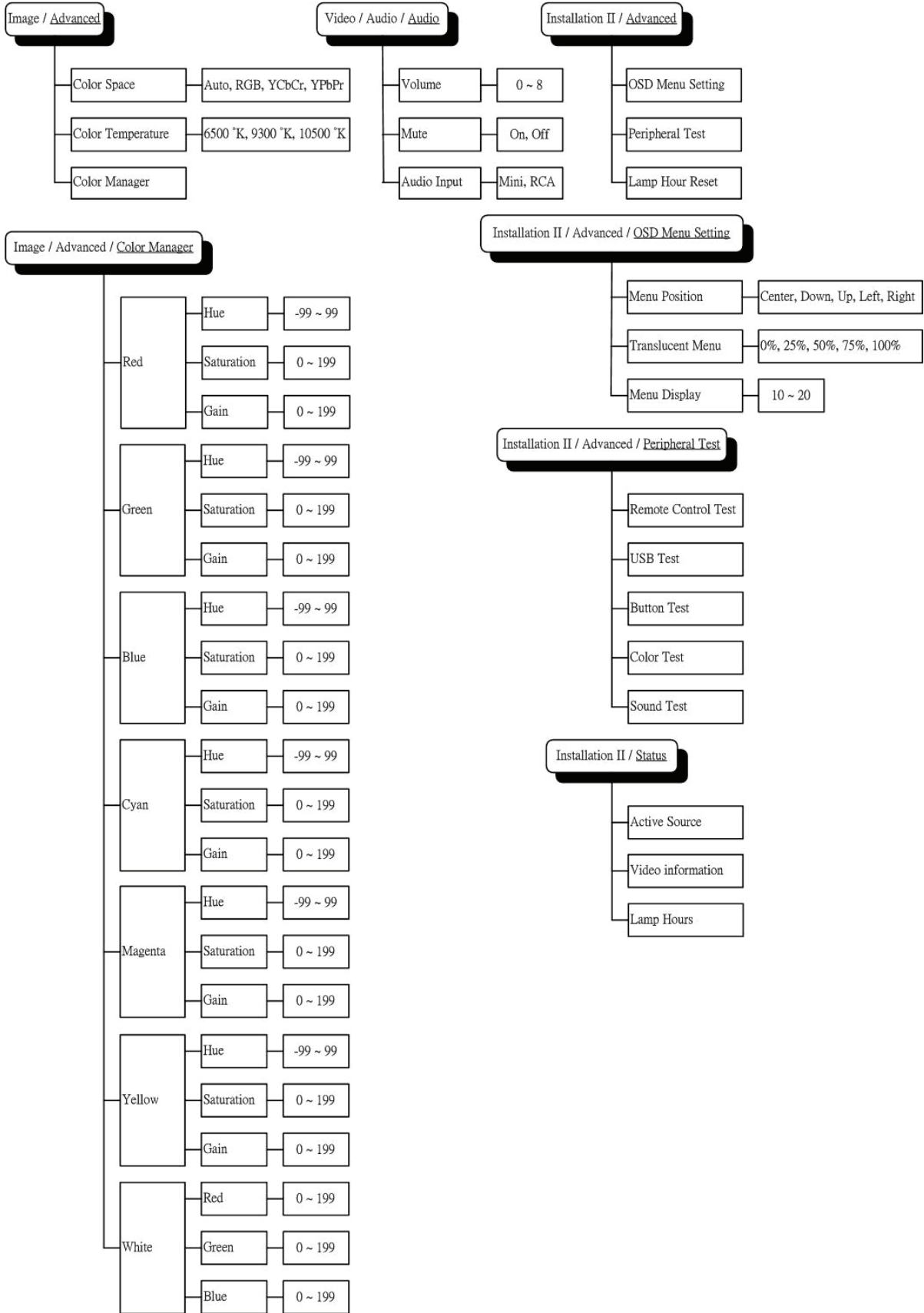
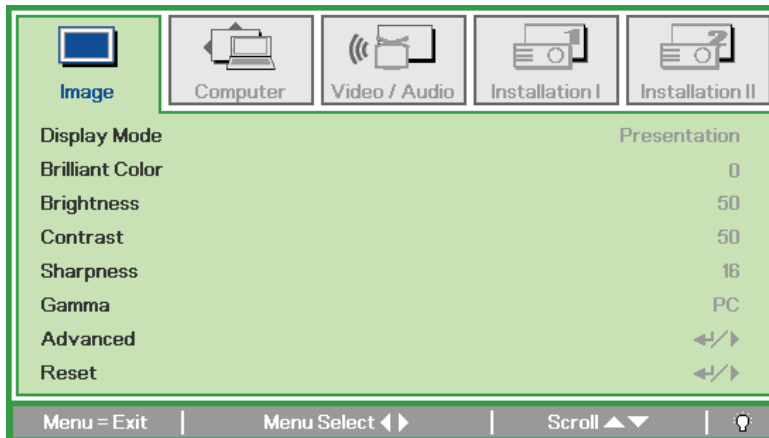


Image Menu

Press the **Menu** button to open the **OSD** menu. Press the cursor ◀▶ button to move to the **Image** menu. Press the cursor ▲▼ button to move up and down in the **Image** menu. Press ◀▶ to change values for settings.



| Item | Description |
|-----------------|--|
| Display Mode | Press the cursor ◀▶ button to set the display mode. Source: Presentation, Bright, Game, Movie, TV, sRGB, User |
| Brilliant Color | Press the cursor ◀▶ button to adjust the Brilliant Color value. (Range: 0-2) Brilliant Color provides brighter, truer and more vibrant color. A higher setting provides a stronger enhanced image. (Range: 0 ~ 2) |
| Brightness | Press the cursor ◀▶ button to adjust the brightness. (Range: 0 – 100) |
| Contrast | Press the cursor ◀▶ button to adjust the contrast. (Range: 0 – 100) |
| Sharpness | Press the cursor ◀▶ button to adjust the display sharpness (Range: 0-31) |
| Gamma | Press the cursor ◀▶ button to adjust the gamma correction of the display. Range: PC, MAC, Video, Chart, B&W |
| Advanced | Press Enter / ▶ to enter the Advanced menu. See “Advanced Feature” on page 24. |
| Reset | Resets all Image settings to default values |

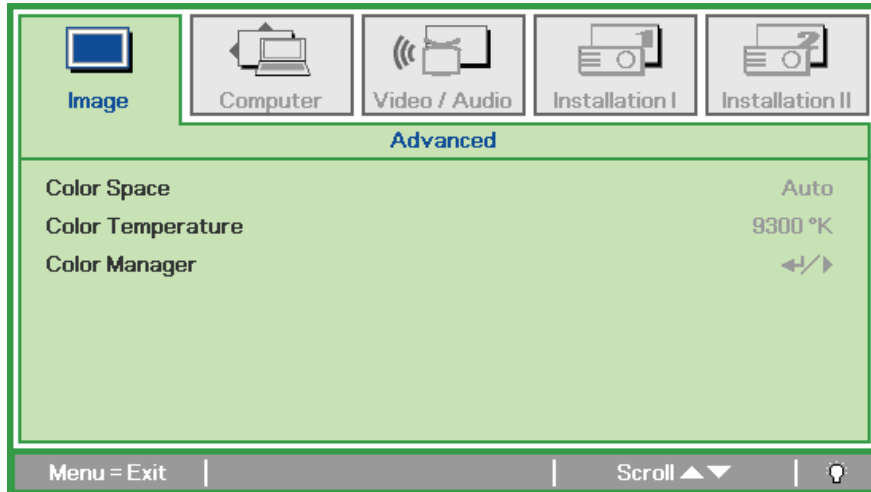
Image Menu Functions Available for Connected Source

| Function | RGB | Component Video | Composite Video | S-video | DVI |
|-----------------|-----|-----------------|-----------------|---------|-----|
| Display Mode | x | x | x | x | x |
| Brilliant Color | x | x | x | x | x |
| Brightness | x | x | x | x | x |
| Contrast | x | x | x | x | x |
| Sharpness | x | x | x | x | x |
| Gamma | x | x | x | x | x |
| Advanced | x | x | x | x | x |
| Reset | x | x | x | x | x |

x = available to video source

Advanced Feature

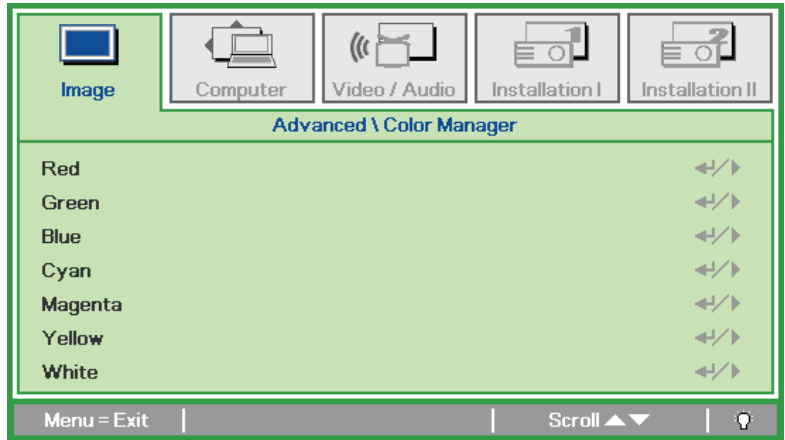
Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Image** menu. Press ▼▲ to move to the **Advanced** menu and then press **Enter** or ▶. Press ▼▲ to move up and down in the **Advanced** menu. Press ◀▶ to change values for settings.



| Item | Description |
|-------------------|---|
| Color Space | Press the cursor ◀▶ button to adjust the color space. (Range: Auto – RGB – YPbPr- YCbCr) |
| Color Temperature | Press the cursor ◀▶ button to adjust the color temperature. (Range: 6500 °K ~ 10500 °K) |
| Color Manager | Press Enter / ▶ to enter the color manager menu. (Range: Red-Green-Blue-Cyan-Magenta-Yellow-White). See page 25 for more information on Color Manager. |

Color Manager

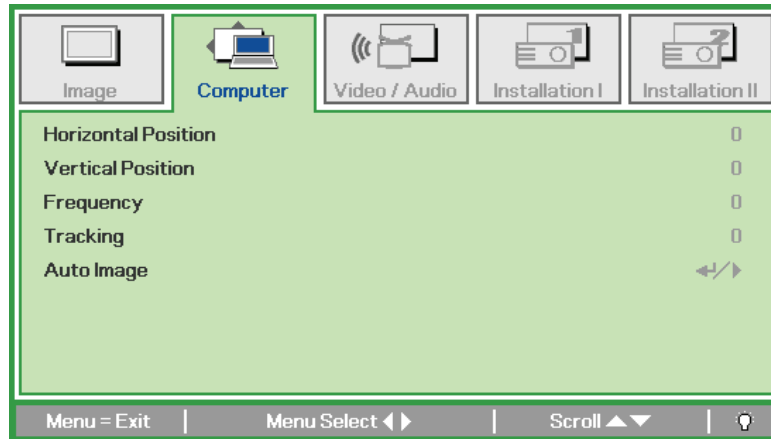
Press Enter / ► to enter the color manager submenu.



| Item | Description |
|---------|---|
| Red | Press Enter / ► button to adjust the red color level. Range: Hue (-99 ~ 99), Saturation (0 ~ 199), Gain (0 ~ 199) |
| Green | Press Enter / ► button to adjust the green color level. Range: Hue (-99 ~ 99), Saturation (0 ~ 199), Gain (0 ~ 199) |
| Blue | Press Enter / ► button to adjust the blue color level. Range: Hue (-99 ~ 99), Saturation (0 ~ 199), Gain (0 ~ 199) |
| Cyan | Press Enter / ► button to adjust the cyan color level. Range: Hue (-99 ~ 99), Saturation (0 ~ 199), Gain (0 ~ 199) |
| Magenta | Press Enter / ► button to adjust the magenta color level. Range: Hue (-99 ~ 99), Saturation (0 ~ 199), Gain (0 ~ 199) |
| Yellow | Press Enter / ► button to adjust the yellow color level. Range: Hue (-99 ~ 99), Saturation (0 ~ 199), Gain (0 ~ 199) |
| White | Press Enter / ► button to adjust the white color level. Range: Red (0 ~ 199), Green (0 ~ 199), Blue (0 ~ 199) |

Computer Menu

Press the **Menu** button to open the **OSD** menu. Press the cursor ◀▶ button to move to the **Computer** menu. Press the cursor ▲▼ button to move up and down in the **Computer** menu. Press ◀▶ to change values for settings.



| Item | Description |
|---------------------|---|
| Horizontal Position | Press the cursor ◀▶ button to move the image left or right. (Range: -5 ~ +5) |
| Vertical Position | Press the cursor ◀▶ button to move the image up or down. (Range: -5 ~ +5) |
| Frequency | Press the cursor ◀▶ button to adjust the A/D sampling clock. (Range: Clock 0 ~ 31) |
| Tracking | Press the cursor ◀▶ button to adjust the A/D sampling number. (Range: -5 ~ +5) |
| Auto Image | Press Enter/ ▶ to Re-Sync source, adjustment for phase, tracking, size and position. |

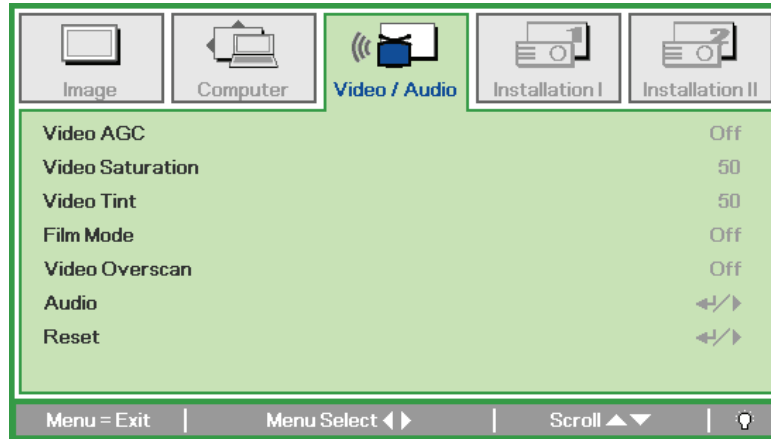
Computer Menu Functions Available for Connected Source

| Function | RGB | Component Video | Composite Video | S-video | DVI |
|------------|-----|-----------------|-----------------|---------|-----|
| H Position | x | x | | | |
| V Position | x | x | | | |
| Frequency | x | x | | | |
| Tracking | x | x | | | |
| Auto Image | x | x | x | x | x |

x = available to video source

Video/Audio Menu

Press the **Menu** button to open the **OSD** menu. Press the cursor ◀▶ button to move to the **Video/Audio** menu. Press the cursor ▲▼ button to move up and down in the **Video/Audio** menu. Press ◀▶ to change values for settings.



| Item | Description |
|------------------|--|
| Video AGC | Press the cursor ◀▶ button to enable or disable automatic gain control for the video source. (Range: On – Off) |
| Video Saturation | Press the cursor ◀▶ button to adjust the video saturation. (Range: 0 – 100) |
| Video Tint | Press the cursor ◀▶ button to adjust the video tint/hue. (Range: 0 – 100) |
| Film Mode | Press the cursor ◀▶ button select different film mode. <ul style="list-style-type: none"> • Off – Film mode is turned off. • Auto Automatic 2:2/3:2 pull-down detection. <ul style="list-style-type: none"> ○ 2:2 Uses 2:2 pull-down correction methods. ○ 3:2 Uses 3:2 pull-down correction methods. |
| Video Overscan | Press the cursor ◀▶ button to enable or disable video over scan. (Range: On – Off) |
| Audio | Press Enter / ▶ to enter the Audio menu. See “Audio” on page 28. |
| Reset | Resets all Video/Audio settings to default values |

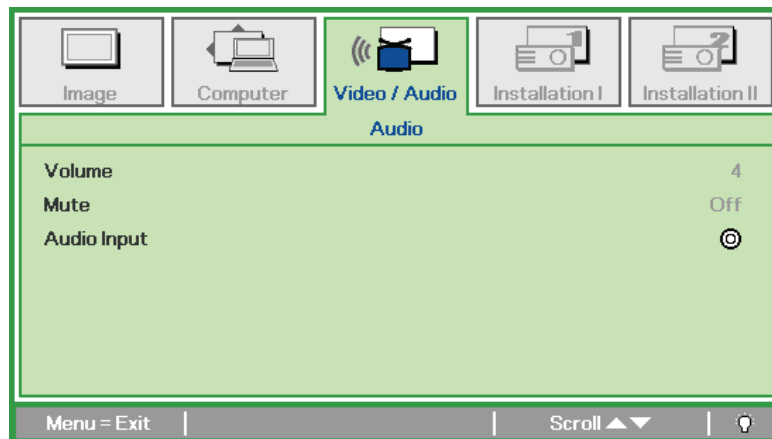
Video/Audio Menu Functions Available for Connected Sources

| Function | RGB | Component Video | Composite Video | S-video | DVI |
|------------------|-----|-----------------|-----------------|---------|-----|
| Video AGC | | | x | x | |
| Video Saturation | | x | x | x | |
| Video Tint | | x | x | x | |
| Film Mode | | x | x | x | |
| Video Overscan | | x | x | x | |
| Audio | x | x | x | x | x |
| Reset | x | x | x | x | x |

x = available to video source

Audio

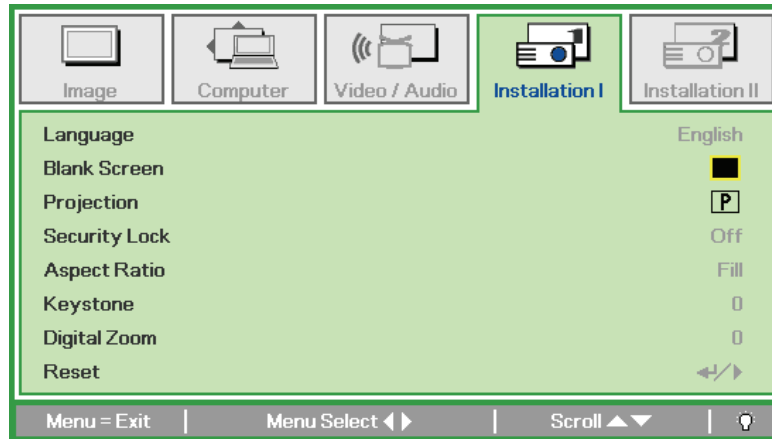
Press Enter / ► to enter the audio submenu.



| Item | Description |
|-------------|--|
| Volume | Press the cursor ◀▶ button to adjust the audio volume. (Range: 0 – 8) |
| Mute | Press the cursor ◀▶ button to turn on or off the speaker. |
| Audio Input | Press the cursor ◀▶ button to select audio input. (Range: Mini jack – RCA) |

Installation I Menu

Press the **Menu** button to open the **OSD** menu. Press the cursor ◀▶ button to move to the **Installation I** menu. Press the cursor ▲▼ button to move up and down in the **Installation I** menu. Press ◀▶ to change values for settings.



| Item | Description |
|---------------|---|
| Language | Press the cursor ◀▶ to select the desired language. (Range: English, French, Dutch, German, Italian, Portuguese, Norwegian, Spanish, Swedish, Simplified Chinese, Traditional Chinese, Russian) |
| Blank Screen | Press the cursor ◀▶ button to select a background color for the blank screen. (Range: Black – Red – Green – Blue – White) |
| Projection | Press the cursor ◀▶ button to choose from four projection methods: <div style="display: flex; flex-direction: column; gap: 5px;"> <div>P Desktop mount, front of screen</div> <div>Q Desktop mount, rear of screen</div> <div>d Ceiling mount, front of screen</div> <div>b Ceiling mount, rear of screen</div> </div> |
| Security Lock | Press the cursor ◀▶ button to enable or disable security lock function. |
| Aspect Ratio | Press the cursor ◀▶ button to adjust the video aspect ratio. (Range: Fill, 4:3, 16:9, Letter Box, Native) |
| Keystone | Press the cursor ◀▶ button to adjust the keystone display. (Range: -30 ~ +30) |
| Digital Zoom | Press the cursor ◀▶ button to adjust the Digital Zoom menu. (Range: -20 ~ +20) |
| Reset | Resets all Installation I settings to default values |

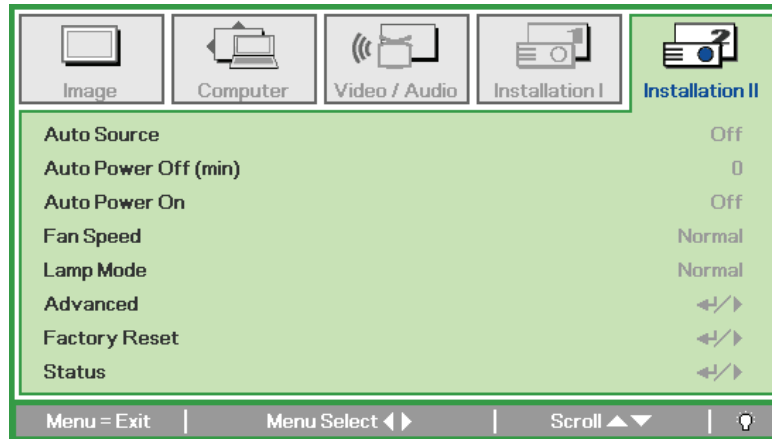
Installation I Menu Functions Available for Connected Sources

| Function | RGB | Component Video | Composite Video | S-video | DVI |
|-----------------|------------|------------------------|------------------------|----------------|------------|
| Language | x | x | x | x | x |
| Blank Screen | x | x | x | x | x |
| Projection | x | x | x | x | x |
| Security Lock | x | x | x | x | x |
| Aspect Ratio | x | x | x | x | x |
| Keystone | x | x | x | x | x |
| Digital Zoom | x | x | x | x | x |
| Reset | x | x | x | x | x |

x = available to video source

Installation II Menu

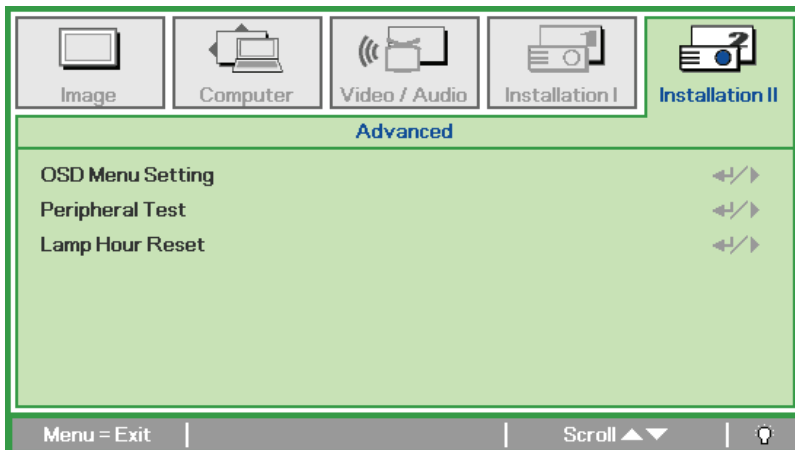
Press the **Menu** button to open the **OSD** menu. Press the cursor ◀▶ button to move to the **Installation II** menu. Press the cursor ▲▼ button to move up and down in the **Installation II** menu. Press ◀▶ to change values for settings.



| Item | Description |
|----------------------|---|
| Auto Source | Press the cursor ◀▶ button to enable or disable automatic source detection. (Range: On – Off) |
| Auto Power Off (min) | Press the cursor ◀▶ button to enable or disable automatic shutdown of lamp after a set number of minutes. (Range: 0 ~ 180) |
| Auto Power On | Press the cursor ◀▶ button to enable or disable automatic power on when AC power is supplied. (Range: On ~ Off) |
| Fan Speed | Press the cursor ◀▶ button to toggle between normal and high fan speed. Set Fan Speed to High in altitudes over 1500 meters (5000 feet). |
| Lamp Mode | Press the cursor ◀▶ button to choose the lamp mode. Range: Eco and Normal. Eco mode uses less power and extends lamp life, but decreases lamp brightness. Normal mode uses more power and reduces lamp life, but increases lamp brightness. |
| Advanced | Press Enter / ▶ to enter the Advanced menu. See “Advanced Feature” on page 32. |
| Factory Reset | Press Enter / ▶ to reset all items to factory preset values. |
| Status | Press Enter / ▶ to view the current display status (these items are display only). See “Status” on page 34. |

Advanced Feature

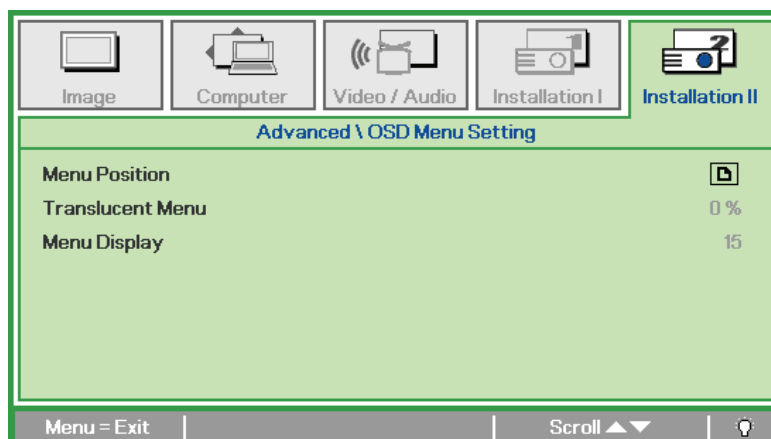
Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Installation II** menu. Press ▲▼ to move to the **Advanced** menu and then press **Enter** or ▶. Press ▲▼ to move up and down in the **Advanced** menu. Press ◀▶ to change values for settings.



| Item | Description |
|------------------|---|
| OSD Menu Setting | Press Enter / ▶ to enter the OSD setting menu. |
| Peripheral Test | Press Enter/ ▶ to enter the Peripheral Test menu. (Range: Remote Control, USB, Button, Color and Sound test) |
| Lamp Hour Reset | After replacing the lamp, this item should be reset. See “Resetting the Lamp” on page 38. |

OSD Menu Setting

Press **Enter** or ▶ to enter the OSD Menu Setting menu.

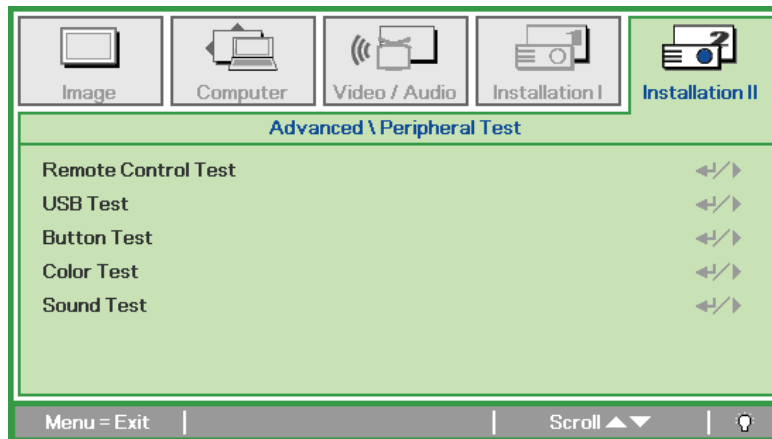


| Item | Description |
|---------------|--|
| Menu Position | Press to position the OSD on screen (Range: Center, Down, Up, Left, Right) |

| Item | Description |
|------------------|---|
| Translucent Menu | Press ◀▶ to set menu screen translucency (Range: 0%, 25%, 50%, 75%, 100%) |
| Menu Display | Press ◀▶ to determine timeout delay of OSD (Range: 10 - 20 sec.) |

Peripheral Test

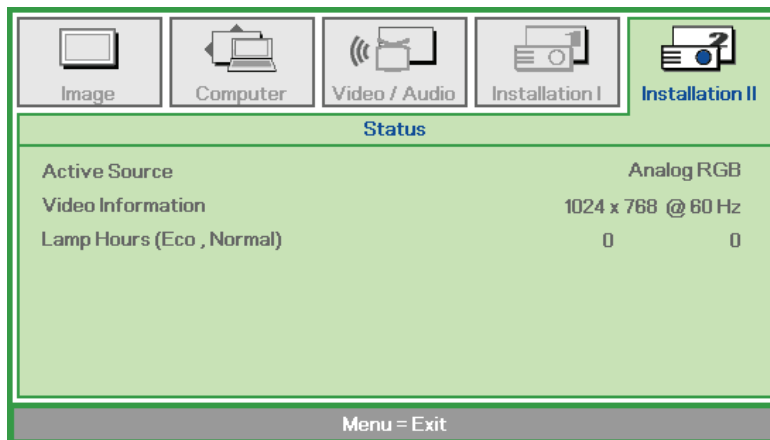
Press **Enter** or ▶ to enter the Peripheral Test menu.



| Item | Description |
|---------------------|---|
| Remote Control Test | Press Enter or ▶ and follow the on-screen prompts to carry out the Remote Control Test. Press the Menu button twice to return to the Peripheral Test menu. |
| USB Test | Press Enter or ▶ and follow on-screen prompts to carry out the USB Test. Press the Menu button to return to the Peripheral Test menu. |
| Button Test | Press Enter or ▶ and follow the on-screen prompts to carry out the Button (display panel) Test. Press the Menu button twice to return to the Peripheral Test menu. |
| Color Test | Press Enter or ▶ and follow on-screen prompts to carry out the Color Test. Press the Menu button to return to the Peripheral Test menu. |
| Sound Test | Press Enter or ▶ and follow on-screen prompts to carry out the Sound Test. Press the Menu button to return to the Peripheral Test menu. |

Status

Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Installation II** menu. Press ▲▼ to move to the **Status** menu and then press **Enter** or ▶.



| Item | Description |
|--------------------------|---|
| Active Source | Displays the active source. |
| Video Information | Displays the resolution and refresh rate for RGB mode. Displays the color standard for video mode. |
| Lamp Hours (Eco, Normal) | Shows the number of hours the lamp has been in use for Eco and Normal modes. |

Maintenance and Security

Replacing the Projection Lamp

The projection lamp should be replaced when it burns out. It should only be replaced with a certified replacement part, which you can order from your local dealer.

Important:

1. The lamp contains a certain amount of mercury and should be disposed of according to local ordinance regulations.
2. Avoid touching the glass surface of the new lamp: Doing so may shorten its operation life.

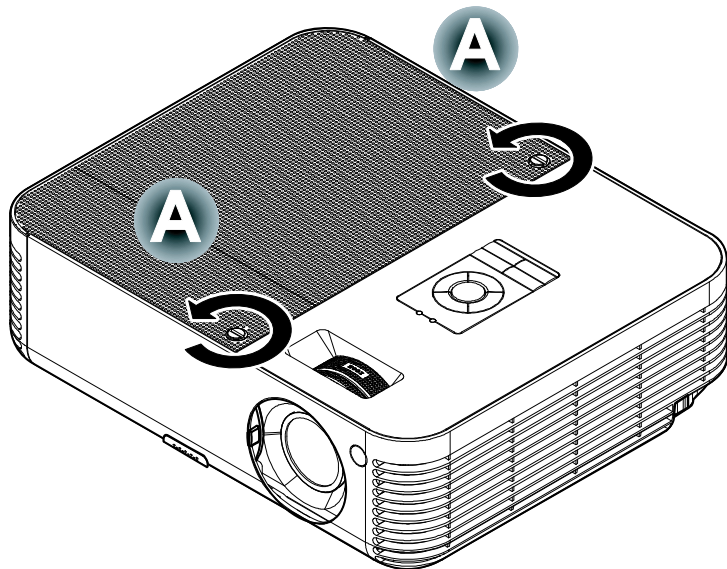
Warning:

Be sure to turn off and unplug the projector at least an hour before replacing the lamp. Failure to do so could result in a severe burn.

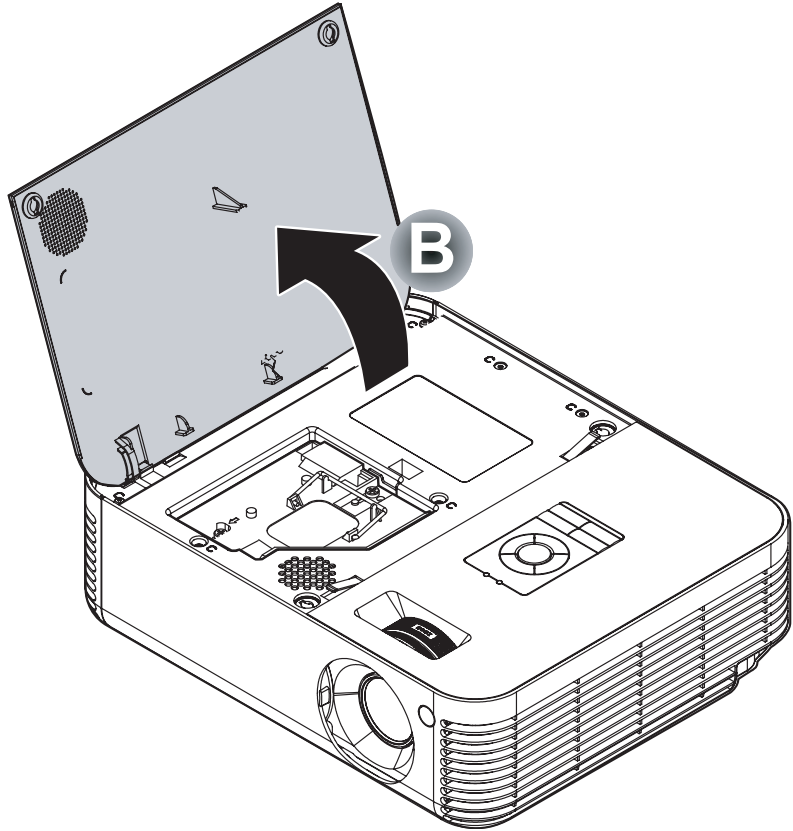
Note:

Safety glasses should be worn when replacing the lamp while the projector is ceiling mounted.

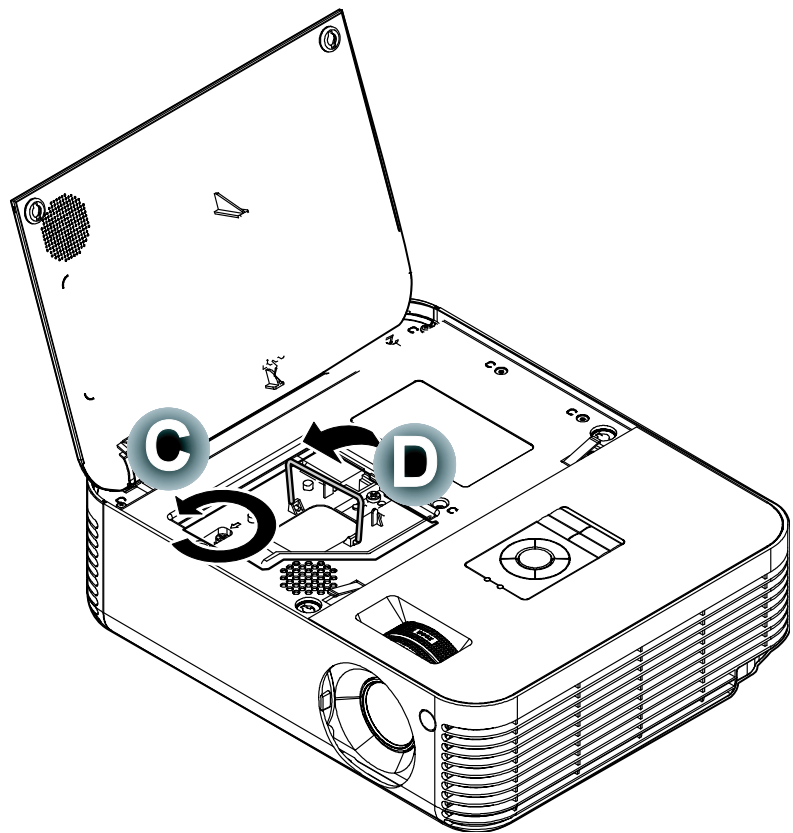
1. Loosen the two captive screws on the lamp compartment cover (A).



- 2.** Open the lamp compartment cover (B).

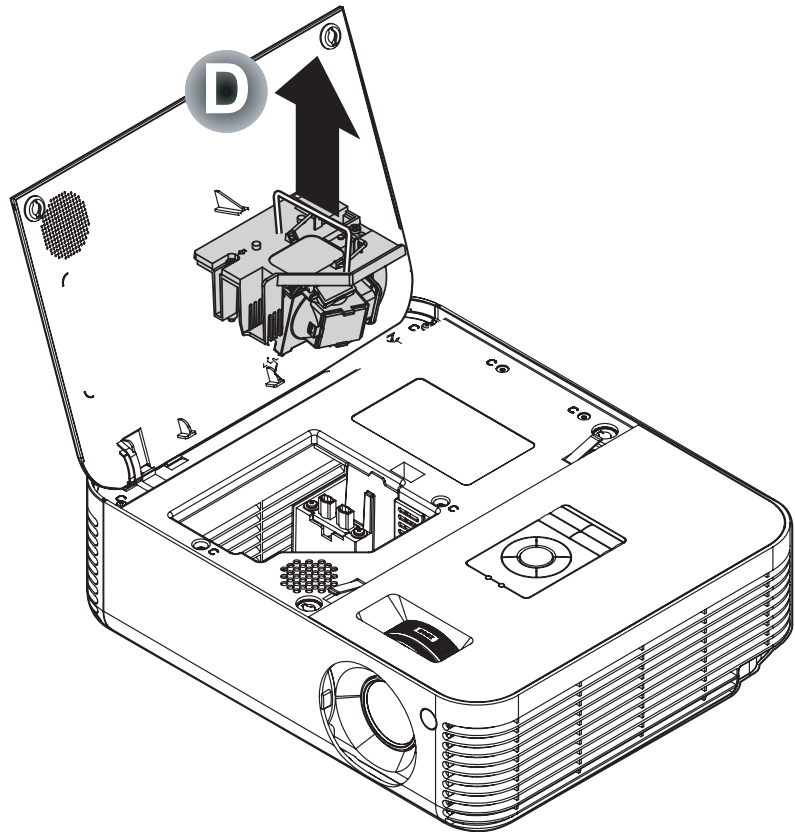


- 3.** Remove the two screws from the lamp module (C).



- 4.** Lift the module handle up (D).

- 5.** Pull firmly on the module handle to remove the lamp module (D)

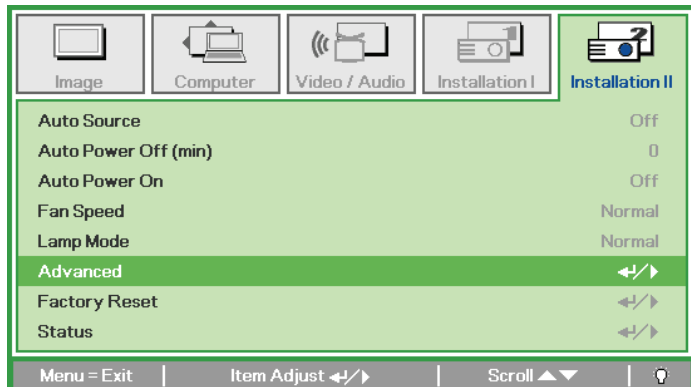


- 6.** Reverse steps 1 to 5 to install the new lamp module.

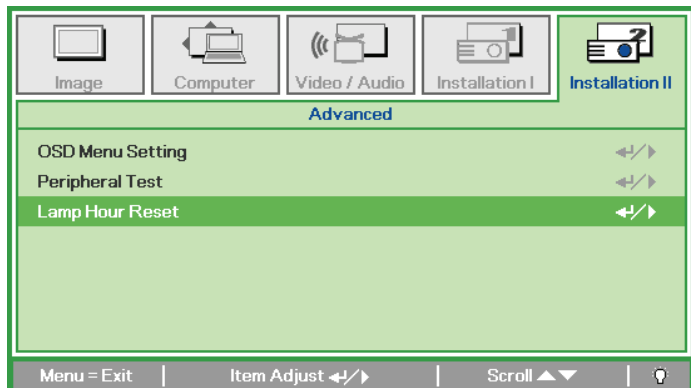
Resetting the Lamp

After replacing the lamp, you should reset the lamp hour counter to zero. Refer to the following:

1. Press the **Menu** button to open the **Image** menu.
2. Press the cursor ◀▶ button to move to the **Installation II** menu. Press the cursor ▲▼ button to move down to **Advanced**.



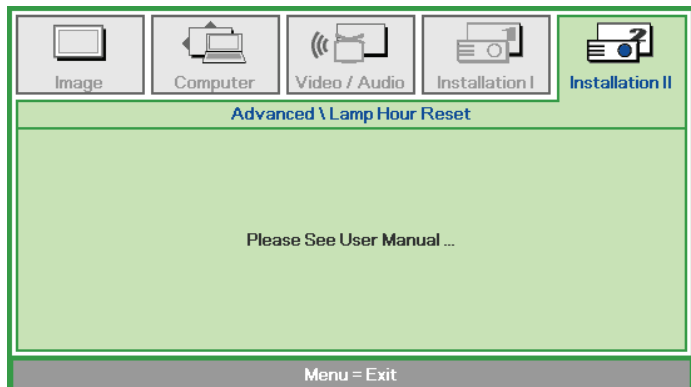
3. Press the cursor ▼▲ button to move down to **Lamp Hour Reset**.



4. Press the cursor ▶ or **Enter** button.

A message screen appears.

5. Press the cursor buttons in this order: ▼▲◀▶. The **Lamp Hours** reset to zero.



Cleaning the Projector

Cleaning the projector to remove dust and grime will help ensure trouble-free operation.

Warning:

1. Be sure to turn off and unplug the projector at least an hour before cleaning. Failure to do so could result in a severe burn.
2. Use only a dampened cloth when cleaning. Do not allow water to enter the ventilation openings on the projector.
3. If a little water gets into the projector interior while cleaning, leave unplugged in a well-ventilated room for several hours before using.
4. If a lot of water gets into the projector interior when cleaning, have the projector serviced.

Cleaning the Lens

You can purchase optic lens cleaner from most camera stores. Refer to the following to clean the projector lens.

1. Apply a little optic lens cleaner to a clean soft cloth. (Do not apply the cleaner directly to the lens.)
2. Lightly wipe the lens in a circular motion.

Caution:

1. Do not use abrasive cleaners or solvents.
2. To prevent discoloration or fading, avoid getting cleaner on the projector case.

Cleaning the Case

Refer to the following to clean the projector case.

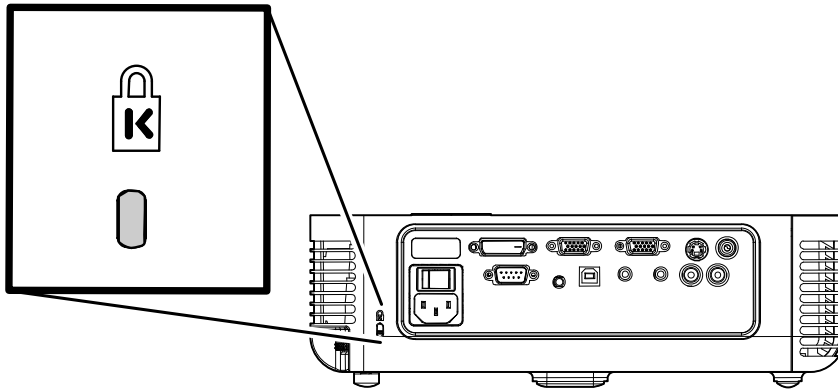
1. Wipe off dust with a clean dampened cloth.
2. Moisten the cloth with warm water and mild detergent (such as used to wash dishes), and then wipe the case.
3. Rinse all detergent from the cloth and wipe the projector again.

Caution:

To prevent discoloration or fading of the case, do not use abrasive alcohol-based cleaners.

Using the Kensington® Lock

If you are concerned about security, attach the projector to a permanent object with the Kensington slot and a security cable.



Note:

Contact your vendor for details on purchasing a suitable Kensington security cable.

The security lock corresponds to Kensington’s MicroSaver Security System. If you have any comment, contact: Kensington, 2853 Campus Drive, San Mateo, CA94403, U.S.A. Tel: 800-535-4242, <http://www.Kensington.com>.

Common problems and solutions

These guidelines provide tips to deal with problems you may encounter while using the projector. If the problem remains unsolved, contact your dealer for assistance.

Often after time spent troubleshooting, the problem is traced to something as simple as a loose connection. Check the following before proceeding to the problem-specific solutions.

- *Use some other electrical device to confirm that the electrical outlet is working.*
- *Ensure the projector is turned on.*
- *Ensure all connections are securely attached.*
- *Ensure the attached device is turned on.*
- *Ensure a connected PC is not in suspend mode.*
- *Ensure a connected notebook computer is configured for an external display. (This is usually done by pressing an Fn-key combination on the notebook.)*

Tips for Troubleshooting

In each problem-specific section, try the steps in the order suggested. This may help you to solve the problem more quickly.

Try to pin point the problem and thus avoid replacing non-defective parts. For example, if you replace batteries and the problem remains, put the original batteries back and go to the next step.

Keep a record of the steps you take when troubleshooting: The information may be useful when calling for technical support or for passing on to service personnel.

LED Error Messages

| Error code message | Power LED/flashes | Ready LED/flashes |
|---|-------------------|-------------------|
| Over temperature | 3 | 0 |
| Thermal Break | 4 | 0 |
| G794 fail | 4 | 4 |
| T1 fail | 4 | 5 |
| Lamp error | 5 | 0 |
| Ballast Over Temperature | 5 | 1 |
| Ballast short circuit in output detected | 5 | 2 |
| End of lamp lift detected | 5 | 3 |
| Ballast lamp did not ignite | 5 | 4 |
| Lamp extinguished during normal operation | 5 | 5 |
| Lamp extinguished during run-up phase | 5 | 6 |
| Fan1 error (Lamp Fan) | 6 | 1 |
| Fan2 error (Ballast Fan) | 6 | 2 |
| Fan3 error (Burner Fan) | 6 | 3 |
| Fan4 error (Power Fan) | 6 | 4 |
| Lamp door open | 7 | 0 |
| DMD error | 8 | 0 |
| Color wheel error | 9 | 0 |

Image Problems

Problem: No image appears on the screen

1. Verify the settings on your notebook or desktop PC.
2. Turn off all equipment and power up again in the correct order.

Problem: The image is blurred

1. Adjust the **Focus** on the projector.
2. Press the **Auto** button on the remote control or projector.
3. Ensure the projector-to-screen distance is within the 10-meter (33-feet) specified range.
4. Check that the projector lens is clean.

Problem: The image is wider at the top or bottom (trapezoid effect)

1. Position the projector so it is as perpendicular to the screen as possible.
2. Use the **Keystone** button on the remote control or projector to correct the problem.

Problem: The image is reversed or upside down

Check the **Projection** setting on the **Utility** menu of the OSD.

Problem: The image is streaked

1. Set the **Frequency** and **Tracking** settings on the **Utility** menu of the OSD to the default settings.

2. To ensure the problem is not caused by a connected PC’s video card, connect to another computer.

Problem: The image is flat with no contrast

Adjust the **Contrast** setting on the **Main** menu of the OSD.

Problem: The color of the projected image does not match the source image.

Adjust the **Color Temperature** and **Gamma** settings on the **Main** menu of the OSD.

Lamp Problems

Problem: There is no light from the projector

1. Check that the power cable is securely connected.
2. Ensure the power source is good by testing with another electrical device.
3. Restart the projector in the correct order and check that the Power LED is green.
4. If you have replaced the lamp recently, try resetting the lamp connections.
5. Replace the lamp module.
6. Put the old lamp back in the projector and have the projector serviced.

Problem: The lamp goes off

1. Power surges can cause the lamp to turn off. Press the power button twice to turn off the projector. When the Ready LED is on, press the power button.
2. Replace the lamp module.
3. Put the old lamp back in the projector and have the projector serviced.

Remote Control Problems

Problem: The projector does not respond to the remote control

1. Direct the remote control towards remote sensor on the projector.
2. Ensure the path between remote and sensor is not obstructed.
3. Turn off any fluorescent lights in the room.
4. Check the battery polarity.
5. Replace the batteries.
6. Turn off other Infrared-enabled devices in the vicinity.
7. Have the remote control serviced.

Audio Problems

Problem: There is no sound

1. Adjust the volume on the remote control.
2. Adjust the volume of the audio source.
3. Check the audio cable connection.
4. Test the source audio output with other speakers.
5. Have the projector serviced.

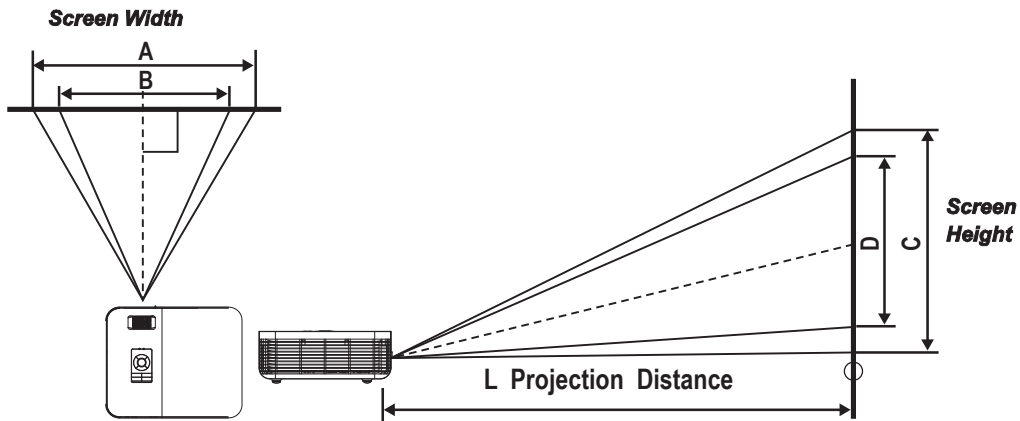
Problem: The sound is distorted

1. Check the audio cable connection.
2. Test the source audio output with other speakers.
3. Have the projector serviced.

Specifications**Input/output connectors**

| Connector | Description |
|------------------|-------------------------|
| Data in | DVI-I |
| | RGB HD-15 |
| Data out | RGB HD-15 |
| Video | Composite video (RCAX1) |
| | S-video |
| Audio in | Stereo RCAX2 (L+R) |
| | Stereo Mini-jack |
| Audio out | Stereo Mini-jack |
| Control | RS-232 |
| | USB |
| Security | Kensington lock |

Projection Distance vs. Projection Size



Projection distance and size table

| Projection Distance L | Max. Screen Size (Wide) | | | Max. Screen Size (Tele) | | |
|-----------------------|-------------------------|---------|----------|-------------------------|---------|----------|
| | Diagonal | Width A | Height C | Diagonal | Width B | Height D |
| 1.5m | 1.16m | 0.99m | 0.62m | 1.01m | 0.86m | 0.54m |
| 4.92' | 46" | 38.97" | 24.4" | 40" | 33.85" | 21.25" |
| 2m | 1.55m | 1.32m | 0.83m | 1.35m | 1.15m | 0.72m |
| 6.56' | 61.4" | 51.96" | 32.67" | 53.3" | 45.27" | 28.34" |
| 3m | 2.33m | 1.99m | 1.24m | 2.032 | 1.72m | 1.08m |
| 9.84' | 92" | 78.34" | 48.81" | 80" | 67.71" | 42.51" |
| 4m | 3.12m | 2.65m | 1.66m | 2.71m | 2.3m | 1.44m |
| 13.12' | 122.9" | 104.33" | 65.35" | 106.73" | 90.55" | 56.69" |
| 5m | 3.9m | 3.31m | 2.07m | 3.38m | 2.87m | 1.8m |
| 16.4' | 153.7" | 130.31" | 81.49" | 133.4" | 112.99" | 70.86" |
| 6m | 4.68m | 3.97m | 2.48m | 4.06m | 3.45m | 2.16m |
| 19.68' | 184.4" | 156.29" | 97.63" | 160" | 135.82" | 85.03" |
| 7m | 5.46m | 4.64m | 2.9m | 4.74m | 4.02m | 2.51m |
| 22.96' | 215.2" | 182.67" | 114.17" | 186.78" | 158.26" | 98.81" |
| 8m | 6.24m | 5.3m | 3.31m | 5.42m | 4.6m | 2.87m |
| 26.24' | 245.9" | 208.66" | 130.31" | 213.4" | 181.1" | 112.99" |
| 9m | 7.02m | 5.96m | 3.73m | 6.09m | 5.17m | 3.23m |
| 29.52' | 276.7" | 234.64" | 146.85" | 240.1" | 203.54" | 127.16" |
| 10m | 7.8m | 6.62m | 4.14m | 6.77m | 5.75m | 3.59m |
| 32.8' | 307.4" | 260.62" | 162.99" | 266.8" | 226.37" | 141.33" |

Shaded rows are equivalent measurement in feet and inches

Timing Mode Table

The projector can display several resolutions. The following table outlines the resolutions that can be displayed by the projector.

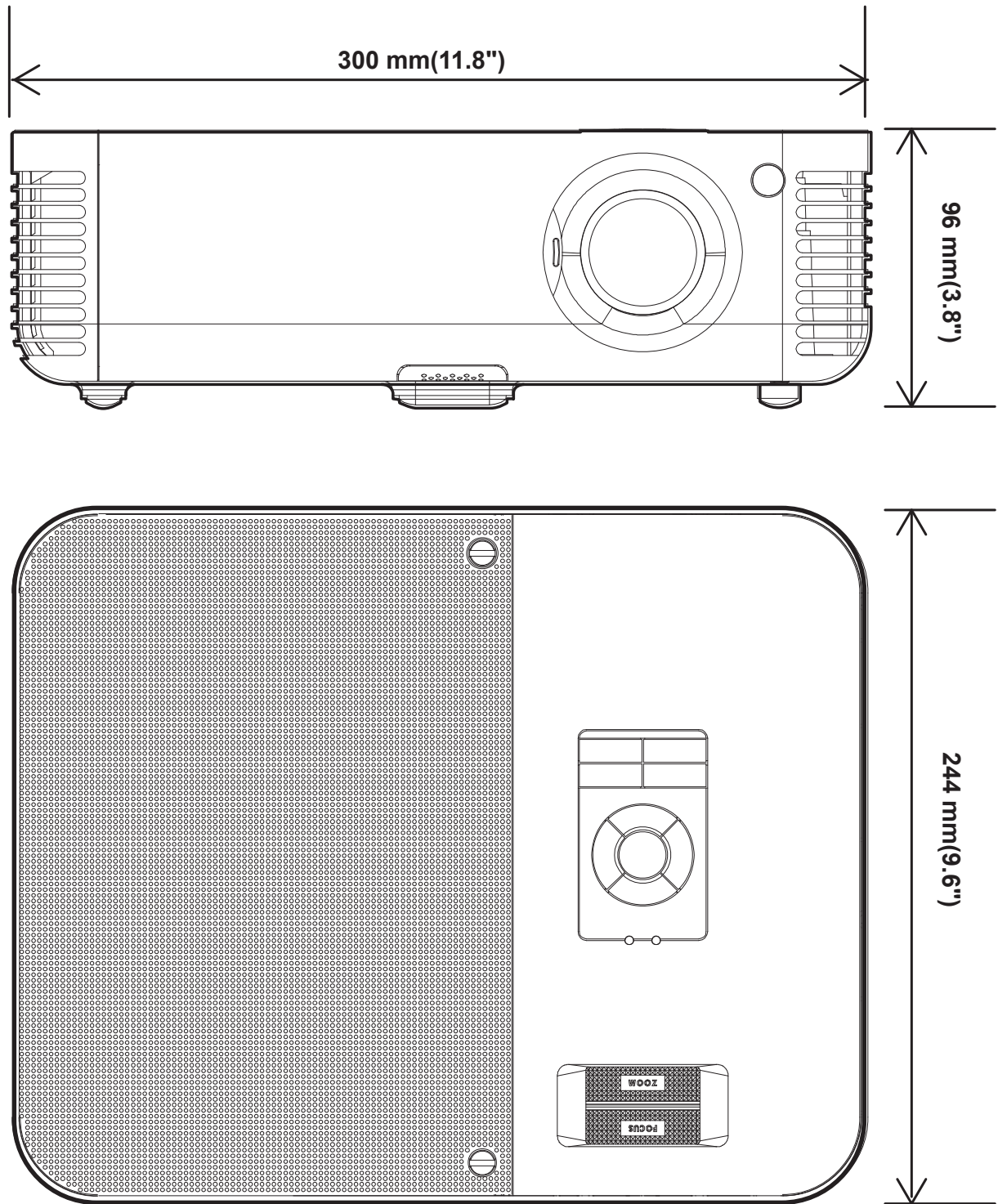
| Signal | Resolution | Frequency H. (KHz) | Frequency V. (Hz) | Video | Digital | Analog |
|-----------------|-------------|--------------------|-------------------|-------|---------|--------|
| NTSC | - | 15.73 | 60.0 | ○ | - | - |
| PAL/SECAM | - | 15.62 | 50.0 | ○ | - | - |
| VESA | 640 x 350 | 37.9 | 85.1 | - | ○ | ○ |
| | 640 x 400 | 37.9 | 85.1 | - | ○ | ○ |
| | 720 x 400 | 37.9 | 85.0 | - | ○ | ○ |
| | 640 x 480 | 31.5 | 60.0 | - | ○ | ○ |
| | 640 x 480 | 37.9 | 72.8 | - | ○ | ○ |
| | 640 x 480 | 37.5 | 75.0 | - | ○ | ○ |
| | 640 x 480 | 43.3 | 85.0 | - | ○ | ○ |
| | 800 x 600 | 35.2 | 56.3 | - | ○ | ○ |
| | 800 x 600 | 37.9 | 60.3 | - | ○ | ○ |
| | 800 x 600 | 48.1 | 72.2 | - | ○ | ○ |
| | 800 x 600 | 46.9 | 75.0 | - | ○ | ○ |
| | 800 x 600 | 53.7 | 85.1 | - | ○ | ○ |
| | 1024 x 768 | 48.4 | 60.0 | - | ○ | ○ |
| | 1024 x 768 | 56.5 | 70.1 | - | ○ | ○ |
| | 1024 x 768 | 60.0 | 75.0 | - | ○ | ○ |
| | 1024 x 768 | 68.8 | 85.0 | - | ○ | ○ |
| | 1280 x 800 | 49.7 | 59.8 | - | ○ | ○ |
| | 1280 x 800 | 62.8 | 74.9 | - | ○ | ○ |
| | 1280 x 800 | 71.6 | 84.8 | - | ○ | ○ |
| | 1280 x 1024 | 64 | 60 | - | ○ | ○ |
| | 1280 x 1024 | 80 | 75 | - | ○ | ○ |
| | 1280 x 1024 | 91.1 | 85 | - | ○ | - |
| | 1400 x 1050 | 65.3 | 60 | - | ○ | ○ |
| 1400 x 900 | 55.9 | 60 | - | ○ | ○ | |
| 1600 x 1200 | 75 | 60 | - | ○ | - | |
| Apple Macintosh | 640 x 480 | 35.0 | 66.7 | - | ○ | ○ |
| | 832 x 624 | 49.7 | 74.5 | - | ○ | ○ |
| | 1024 x 768 | 60.2 | 74.9 | - | ○ | ○ |
| | 1152 x 870 | 68.7 | 75.1 | - | ○ | - |

| | | | | | | |
|------|-------------|------|------|---|---|---|
| SDTV | 720 x 576 | 31.3 | 50.0 | ○ | - | - |
| | 720 x 480 | 31.5 | 60.0 | ○ | - | - |
| HDTV | 1920 x 1080 | 33.8 | 30.0 | ○ | - | - |
| | 1920 x 1080 | 28.1 | 25.0 | ○ | - | - |
| | 1280 x 720 | 45.0 | 60.0 | ○ | - | - |

○: Frequency supported - : Frequency not supported

The native resolution is 1280X800. Resolution other than native mode may be displayed with uneven size of text or lines.

Projector Dimensions



Regulatory Compliance

FCC Warning

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 when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the parties responsible for compliance could void the user's authority to operate the equipment.

Canada

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

Safety Certifications

FCC Class B, UL, C-UL, CE, CB, CCC, C-Tick, PSB, PCT, ICES-003 (Class B).

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.

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