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Trademark Recognition

Kensington is a U.S. registered trademark of ACCO Brand Corporation with issued registrations and pending applications in other countries throughout the world.

All other product names used in this manual are the properties of their respective owners and are acknowledged.

Important Safety Information

> ***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.*

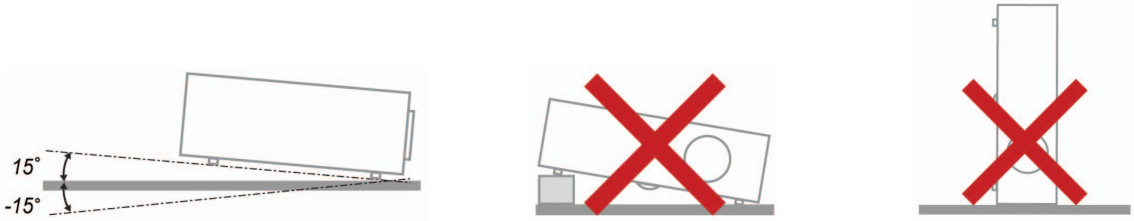
Throughout this manual, component parts and items in the OSD menus are denoted in bold font as in this example:
"Push the **Menu** button on the remote control to open the **Main** menu."

General Safety Information

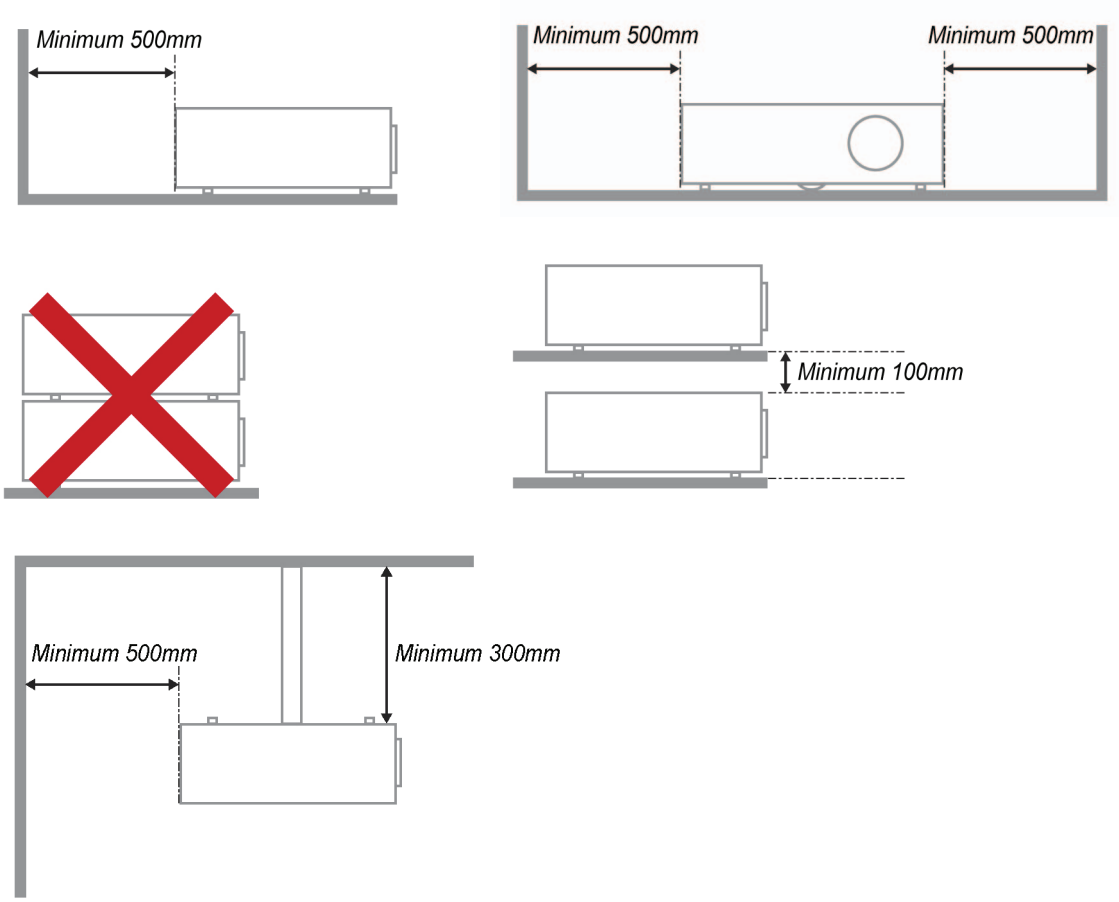
- Do not open the unit case. Aside from the projection lamp, there are no user-serviceable parts in the unit. For servicing, contact qualified service personnel.
- Follow all warnings and cautions in this manual and on the unit case.
- The projection lamp is extremely bright by design. To avoid damage 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.

Projector Installation Notice

- Place the projector in a horizontal position
  The tilt angle of the projector should not exceed 15 degrees, nor should the projector be installed in any way other than the desktop and ceiling mount, otherwise lamp life could decrease dramatically.



- Allow at least 50 cm clearance around the exhaust vent.



- Ensure that the intake vents do not recycle hot air from the exhaust vent.
- When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed 5 – 35°C while the projector is running, and the air intake and exhaust vents are unobstructed.
- All enclosures should pass a certified thermal evaluation to ensure that the projector does not recycle exhaust air, as this may cause the device to shutdown even if the enclosure temperature is with the acceptable 5 – 35°C range.

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. See *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.

Cleaning the Projector

- Unplug the power cord before cleaning. See *Cleaning the Projector* page 38.
- 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* on page 52.

Important Recycle Instructions:

Hg 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.

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 UXGA at 16.7 million colors to deliver crisp, clear images.*
- *Flexible setup allows for front, rear projections.*
- *Line-of-vision projections remain square, with advanced keystone correction for angled projections.*
- *Input source automatically detected.*

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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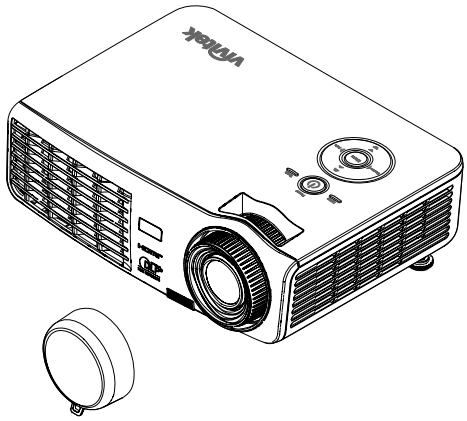
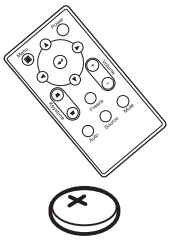
GETTING STARTED

Packing Checklist

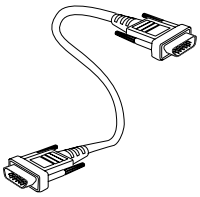
Carefully unpack the projector and check that the following items are included:



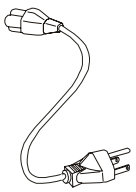
D5 SERIES DLP PROJECTOR WITH LENS CAP



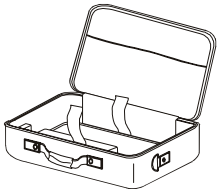
REMOTE CONTROL (WITH ONE 3V CR2025 BATTERY)



RGB CABLE

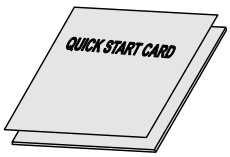


POWER CORD



CARRYING CASE (*)

CD-ROM (*) (THIS USER'S MANUAL)



QUICK START CARD

WARRANTY CARD

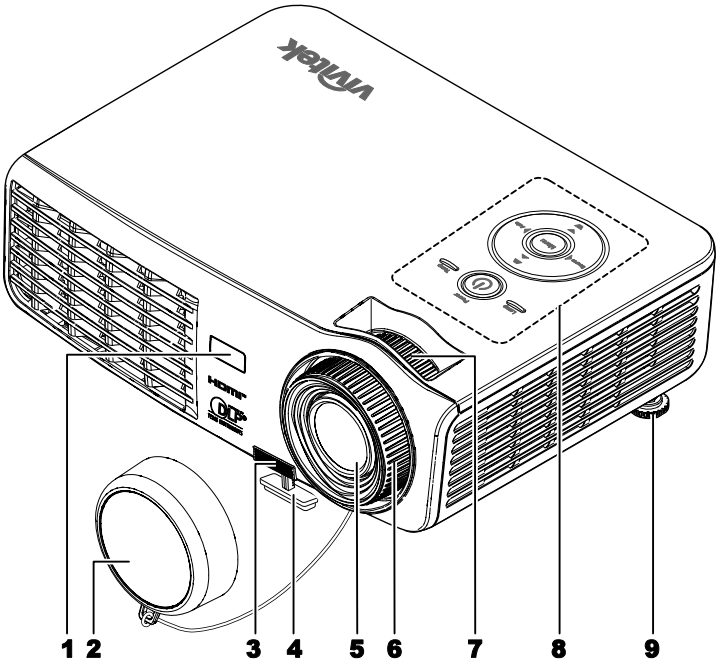
Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work. It is recommend that you keep the original packing material should you ever need to return the equipment for warranty service.

Caution:
Avoid using the projector in dusty environments.

Note:
(*)Not available in D508 / D509

Views of Projector Parts

D5 Series Front-right View

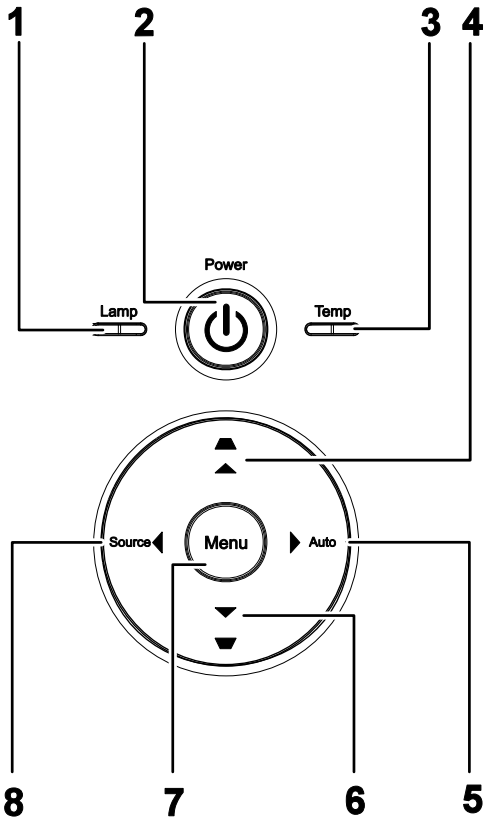


ITEM	LABEL	DESCRIPTION	SEE PAGE:
1.	IR receiver	Receive IR signal from remote control	*6*
2.	Lens cap	Protect lens when not in use	
3.	Height-adjuster button	Push to release height adjuster	*15*
4.	Height adjuster	Adjusts level of projector	
5.	Lens	Projection Lens	
6.	Focus ring	Focuses the projected image	*16*
7.	Zoom ring (*)	Enlarges the projected image	
8.	Function keys	See Top view—On-screen Display (OSD) buttons and LEDs.	*3*
9.	Height adjuster	Adjusts level of projector	*15*

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.

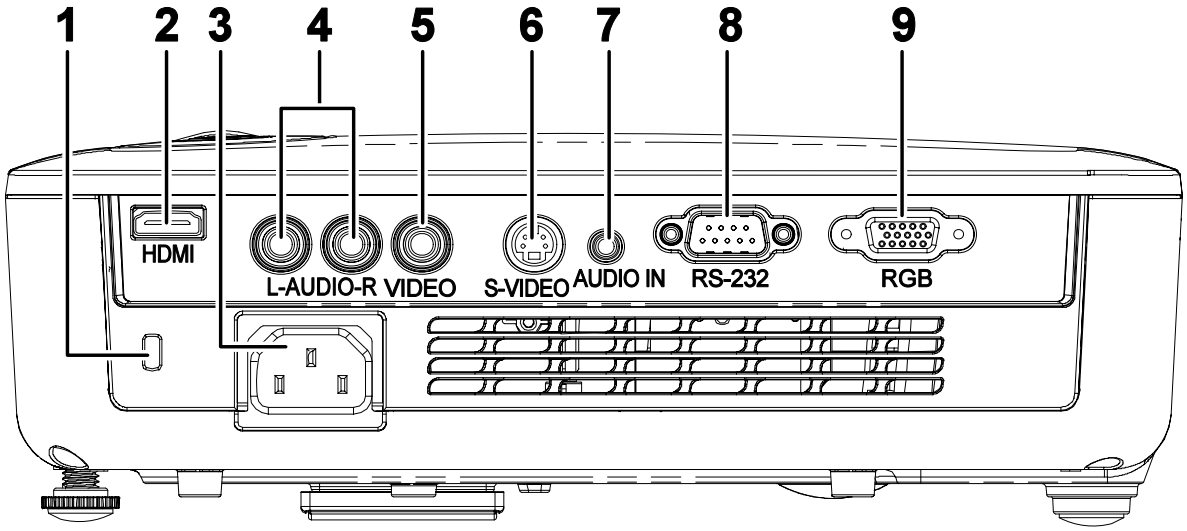
Note:
(*)Not available in D508 / D509 / D520ST

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



ITEM	LABEL	DESCRIPTION		SEE PAGE:
1.	LAMP LED	On	Lamp error	
		Off	Normal State	
2.	⏻ (POWER)	Turns the projector On or Off		*11*
3.	TEMP LED	On	System over temperature	
		Off	Normal State	
4.	▲ (Up cursor) / KEYSTONE	Navigates and changes settings in the OSD Quick Menu – For Keystone		*18*
5.	► (Right cursor) / Auto	Navigates and changes settings in the OSD Optimizes image size, position, and resolution		
6.	▼ (Down cursor) / KEYSTONE	Navigates and changes settings in the OSD Quick Menu – For Keystone		
7.	MENU	Open and exits the OSD buttons		
8.	◄ (Left cursor) / Source	Navigates and changes settings in the OSD Detects the input device		

Rear view

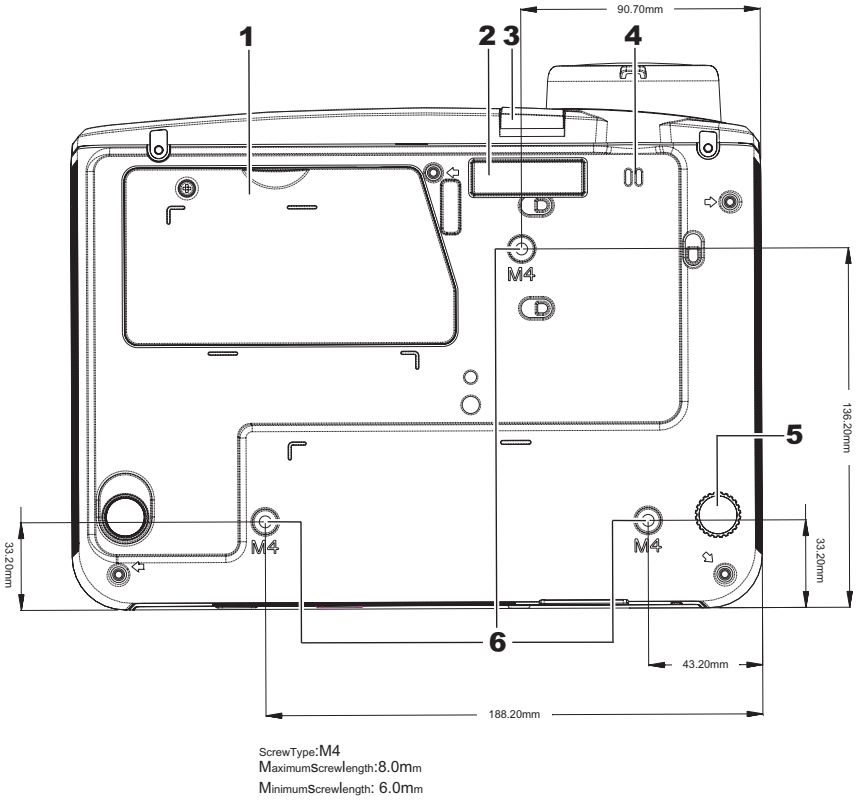


ITEM	LABEL	DESCRIPTION	SEE PAGE:
1.	Kensington Lock	Secure to permanent object with a Kensington® Lock system	***39***
2.	HDMI (*1)	Connect the HDMI CABLE from a HDMI device	***10***
3.	AC IN	Connect the POWER CABLE	***11***
4.	AUDIO IN (L and R)	Connect the AUDIO CABLES from a audio device	***10***
5.	VIDEO IN	Connect the COMPOSITE CABLE from a video device	
6.	S-VIDEO IN	Connect the S-VIDEO CABLE from a video device	
7.	AUDIO IN	Connect an AUDIO CABLE from the input device	
8.	RS-232C (*2)	Connect RS-232 serial port cable for remote control	
9.	RGB IN	Connect the RGB CABLE from a computer and components	

Note: *(*1) Not available in D508 / D509*
*(*2) Change to USB connector – only available in D508 / D509*

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.

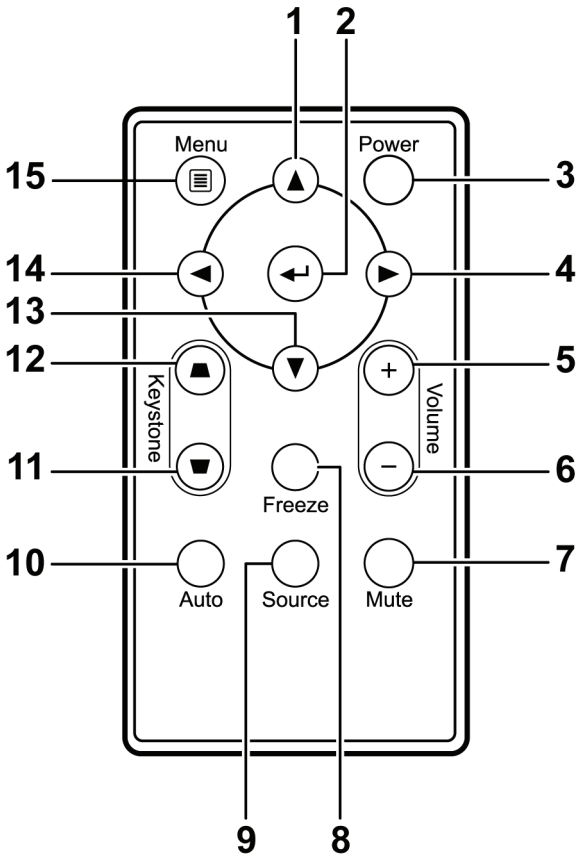
Bottom view



ITEM	LABEL	DESCRIPTION	SEE PAGE:
1.	Lamp cover	Remove when changing the lamp.	***35***
2.	Height adjustor	Adjuster drops down when adjuster button is pushed.	***15***
3.	Height adjustor button	Push to release adjustor.	
4.	Lens cap hook	To fasten the lens cap cover	
5.	Tilt adjustor	Rotate adjuster lever to adjust angle position.	***15***
6.	Ceiling support holes	Contact your dealer for information on mounting the projector on a ceiling	

Note:
When installing, ensure that you use only UL Listed ceiling mounts.
For ceiling installations, use approved mounting hardware and M4 screws with a maximum screw depth of 6 mm (0.23 inch).
The construction of the ceiling mount must be of a suitable shape and strength. The ceiling mount load capacity must exceed the weight of the installed equipment, and as an additional precaution be capable of withstanding three times the weight of the equipment (not less than 5.15 kg) over a period of 60 seconds.

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.	Up cursor	Navigates and changes settings in the OSD	*18*
2.	Enter	Changes settings in the OSD	
3.	Power	Turns the projector On or Off	*11*
4.	Right cursor	Navigates and changes settings in the OSD	*18*
5.	Volume +	Increase volume	*17*
6.	Volume -	Decrease volume	
7.	Mute	Mutes the built-in speaker	
8.	Freeze	Freeze/unfreezes the on-screen picture	
9.	Source	Detects the input device	*10*
10.	Auto	Auto adjustment for frequency, tracking, size, position (RGB only)	
11.	Keystone top	Corrects image-trapezoid (wider top) effect	*16*
12.	Keystone bottom	Corrects image trapezoid (wider bottom) effect	
13.	Down cursor	Navigates and changes settings in the OSD	*18*
14.	Left cursor	Navigates and changes settings in the OSD	
15.	Menu	Opens the OSD	

Remote Control Operating Range

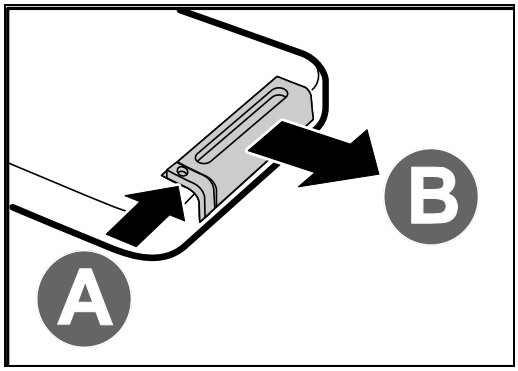
The remote control uses infrared transmission to control the projector. It is not necessary to point the remote directly at the projector. Provided you are not holding the remote perpendicular to the sides or the rear of the projector, the remote will function well within a radius of about 7 meters (23 feet) and 15 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

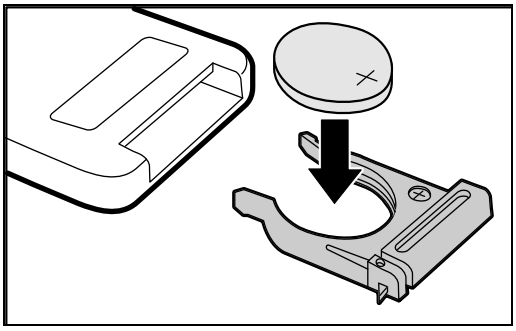
The projector can be operated using the remote control or the buttons on the top of the projector. All operations can be carried out with the remote control; however, the buttons on the projector are limited in use.

Inserting the Remote Control Batteries

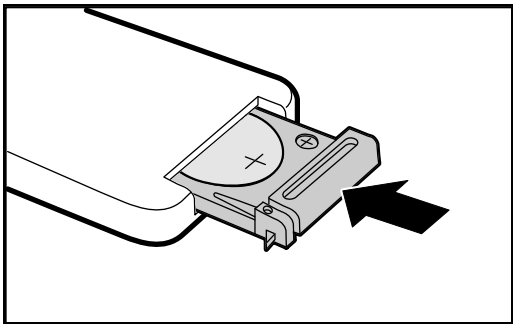
1. Remove the battery compartment cover by sliding the cover in the direction of the arrow **(A)**. Pull out the cover **(B)**.



2. Insert the battery with the positive side facing up.



3. Replace the cover.



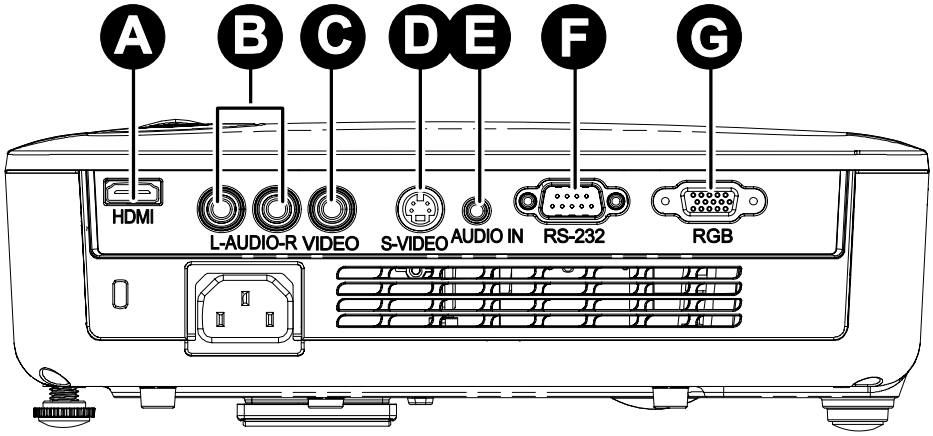
Caution:
1. *Only use a 3V lithium battery (CR2025).*

2. *Dispose of used batteries according to local ordinance regulations.*

3. *Remove the battery when not using the projector for prolonged periods.*

Connecting Input Devices

A PC or notebook computer and 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.



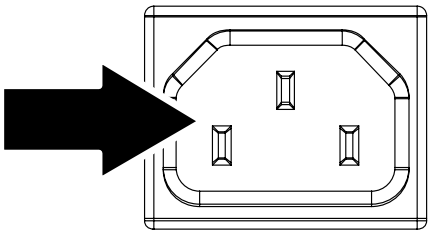
ITEM	LABEL	DESCRIPTION
A	HDMI (*1)	Connect the HDMI CABLE from a HDMI device
B	AUDIO IN (L and R)	Connect the AUDIO CABLES from a audio device
C	VIDEO IN	Connect the COMPOSITE CABLE from a video device
D	S-VIDEO	Connect the S-VIDEO CABLE from a video device
E	AUDIO IN	Connect an AUDIO CABLE from the input device
F	RS-232C (*2)	Connect the RS-232 serial cable for remote control
G	RGB IN	Connect the RGB CABLE from a computer and components

Note:
*(*1) Not available in D508 / D509*
*(*2) Change to USB connector –only available in D508 / D509*

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

Starting and Shutting down the Projector

1. Connect the power cord to the projector. Connect the other end to a wall outlet. The ⏻ **POWER** LED on the projector light.



2. Turn on the connected devices.

3. Ensure the LAMP LED not a flashing orange. Then press the ⏻ **POWER** button to turn on the projector.

   The projector splash screen displays and connected devices are detected.

   See *Setting an Access Password (Security Lock)* on page 13 if security lock is enabled.

4. If more than one input device is connected, press the **SOURCE** button and use ▲▼ to scroll among devices. (Component is supported through the RGB to COMPONENT ADAPTER.)

- VGA: 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)
- HDMI: HDMI, DVI (*Not available in D508 / D509*)

5. When the "Power Off? /Press **Power** again" message appears, press the **POWER** button. The projector turns off.

Caution:

1. Be sure to remove the lens cap before starting projector.

2. Do not unplug the power cord until the LAMP LED stops flashing–indicating the projector has cooled down.

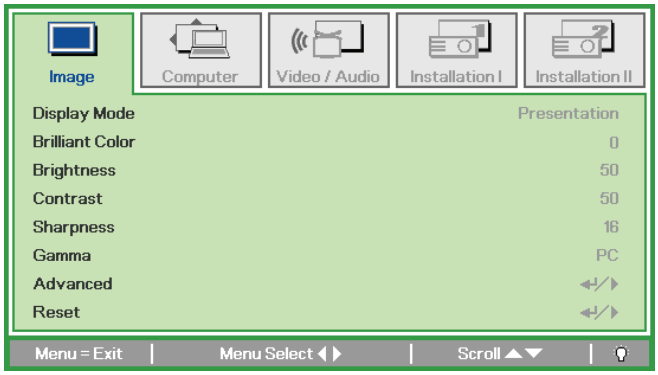
Setting an Access Password (Security Lock)

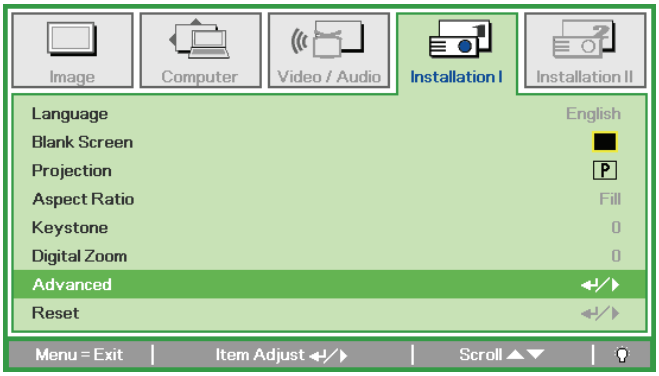
You can use the four (arrow) buttons to set a password and prevent unauthorized use of the projector. When enabled, the password must be entered after you power on the projector. (See *Navigating the OSD* on page 18 and *Setting the OSD Language* on page 19 for help on using OSD menus.)

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 select **Advanced**.

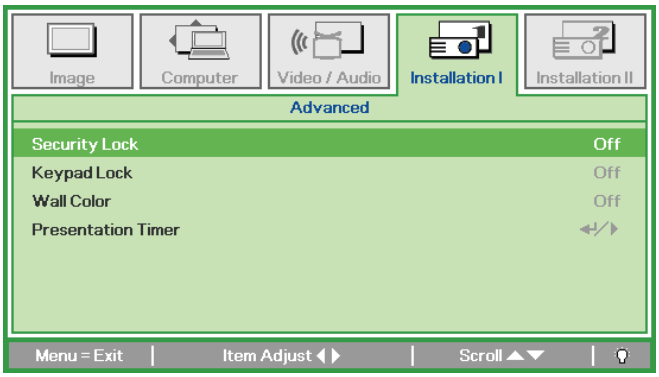




3. Press the cursor ▲▼ button to select **Security Lock**.

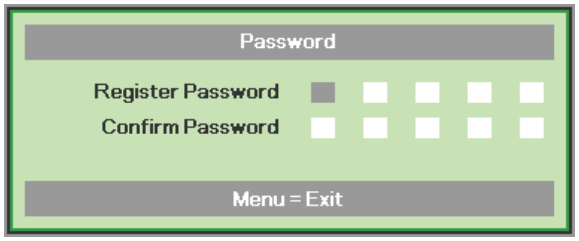
4. Press the cursor ◄► button to enable or disable security lock function.

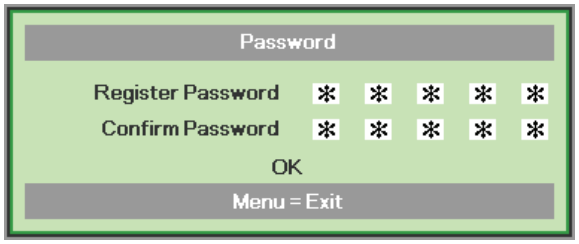
A password dialog box automatically appears.



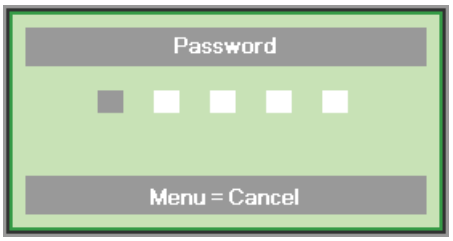
5. You can use the cursor buttons ▲▼◄► either on keypad or IR remote control for password entry. You can use any combination including the same arrow five times, but not less than five.

Press the cursor buttons in any order to set the password. Push the **MENU** button to exit the dialog box.





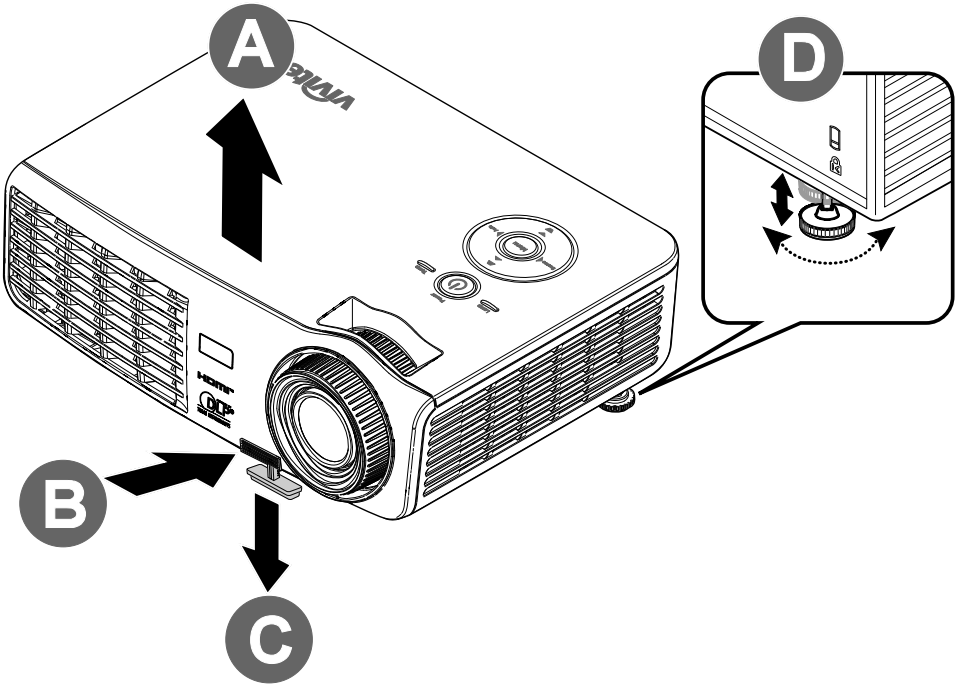
6. The password confirm menu appears when user presses the power-on key in case the **Security Lock** is enabled.
Enter the password in the order you set it at step 5. In case you forget the password, please contact the service center.
Service center will validate the owner and help reset the password.



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.*
- *Ensure the cables are in a safe location. You could trip over them.*



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]**.

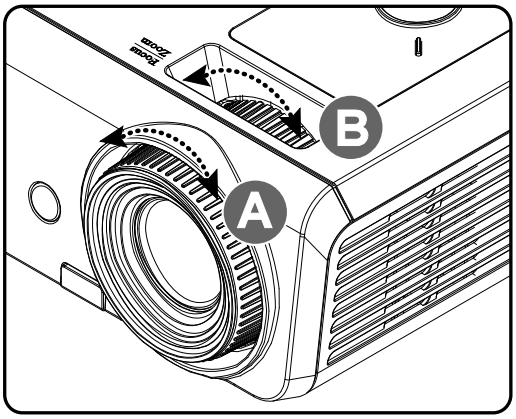
2. To lower the level of the projector, press the height-adjuster button and push down on the top of the projector.

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

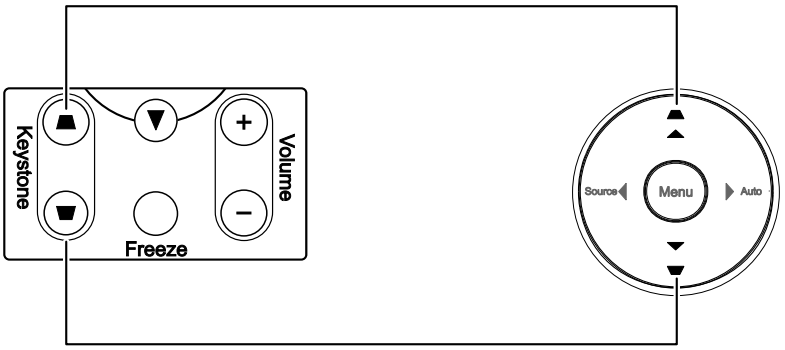
Adjusting the Zoom, Focus and Keystone

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. Use the **KEYSTONE** buttons (on the projector or the remote control) to correct image-trapezoid (wider top or bottom) effect.

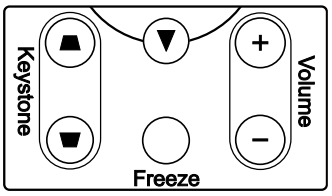


Remote control and OSD panel

4. The keystone control appears on the display.

Adjusting the Volume

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



2. Press the **Left** or **Right Cursor** buttons on the keypad to adjust **Volume** +/-.

3. Press the **MUTE** button to turn off the volume (This feature is available only on the remote).

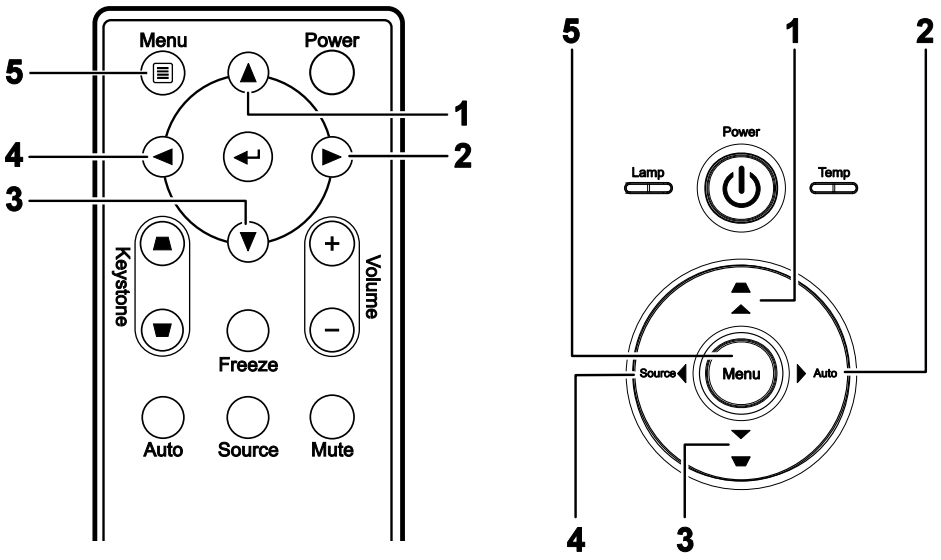
ON-SCREEN DISPLAY (OSD) MENU SETTINGS

OSD Menu Controls

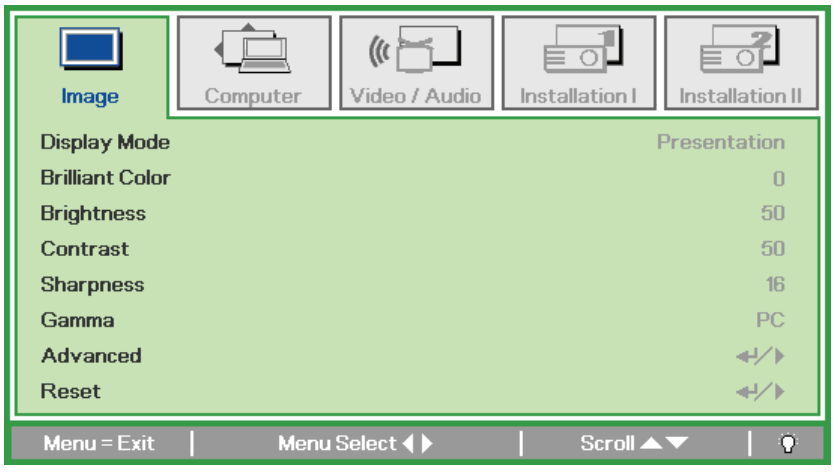
The projector has an OSD that lets you make image adjustments and change various settings.

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 projector.



1. To enter 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.

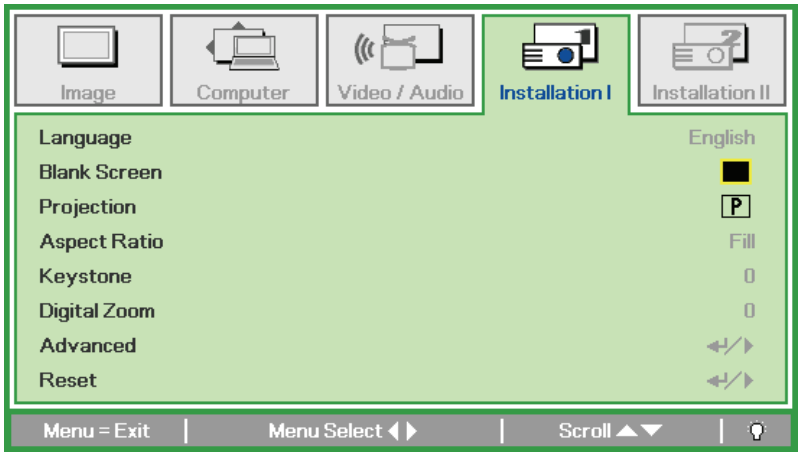


Note:
Depending on the video source, not all items in the OSD are available. For example, the ***Horizontal/Vertical Position*** *items in the* ***Computer*** *menu can only be modified when connected to a PC. Items that are not available cannot be accessed and are grayed out.*

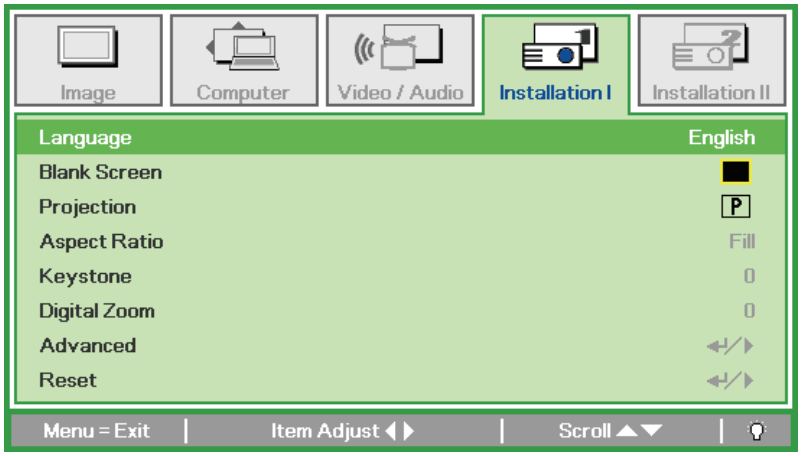
Setting the OSD Language

Set the OSD language to your preference before continuing.

1. Press the **MENU** button. Press the cursor ◄► button to navigate to Installation I.



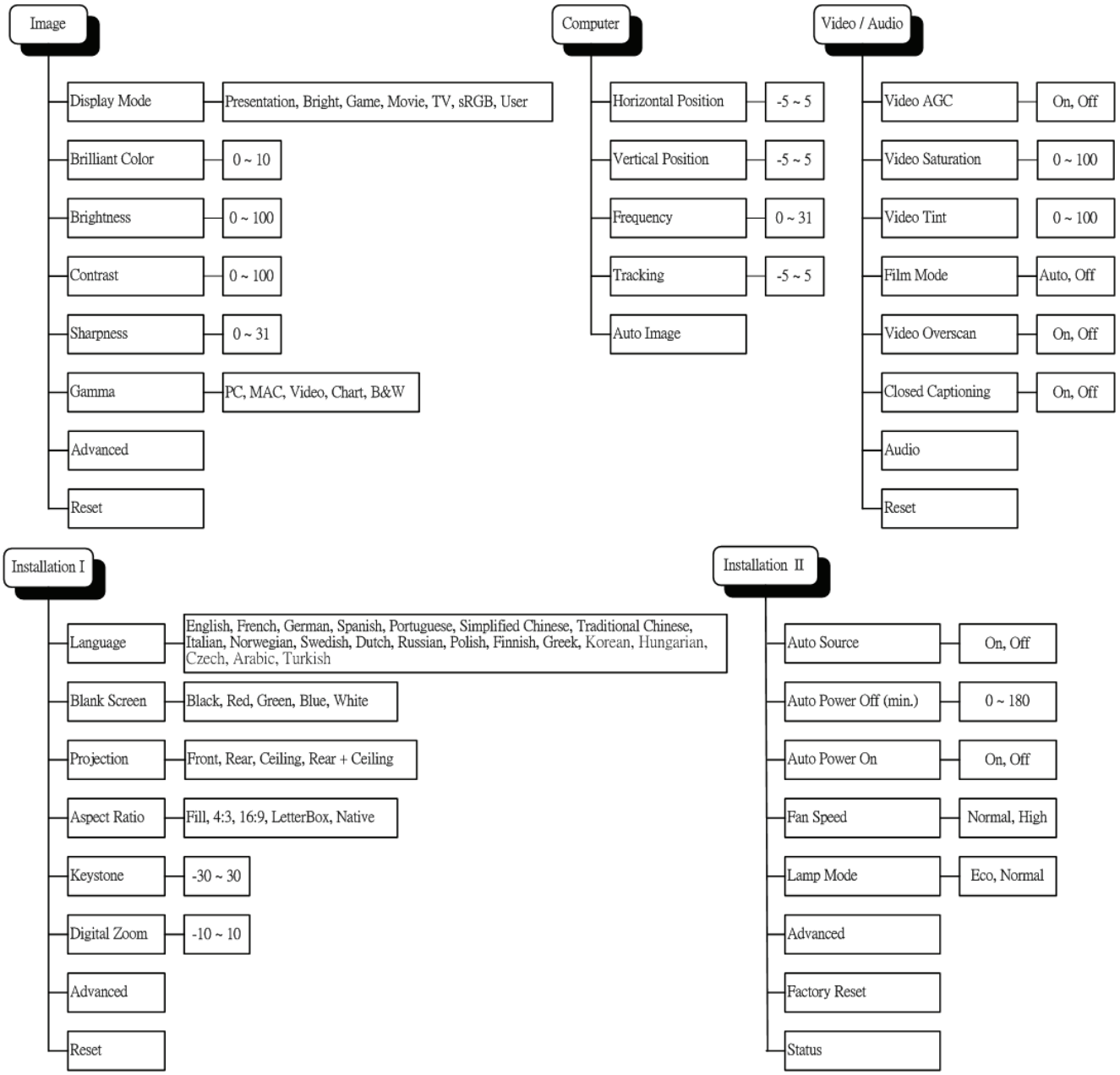
2. Press the cursor ▲▼ button until **Language** is highlighted.



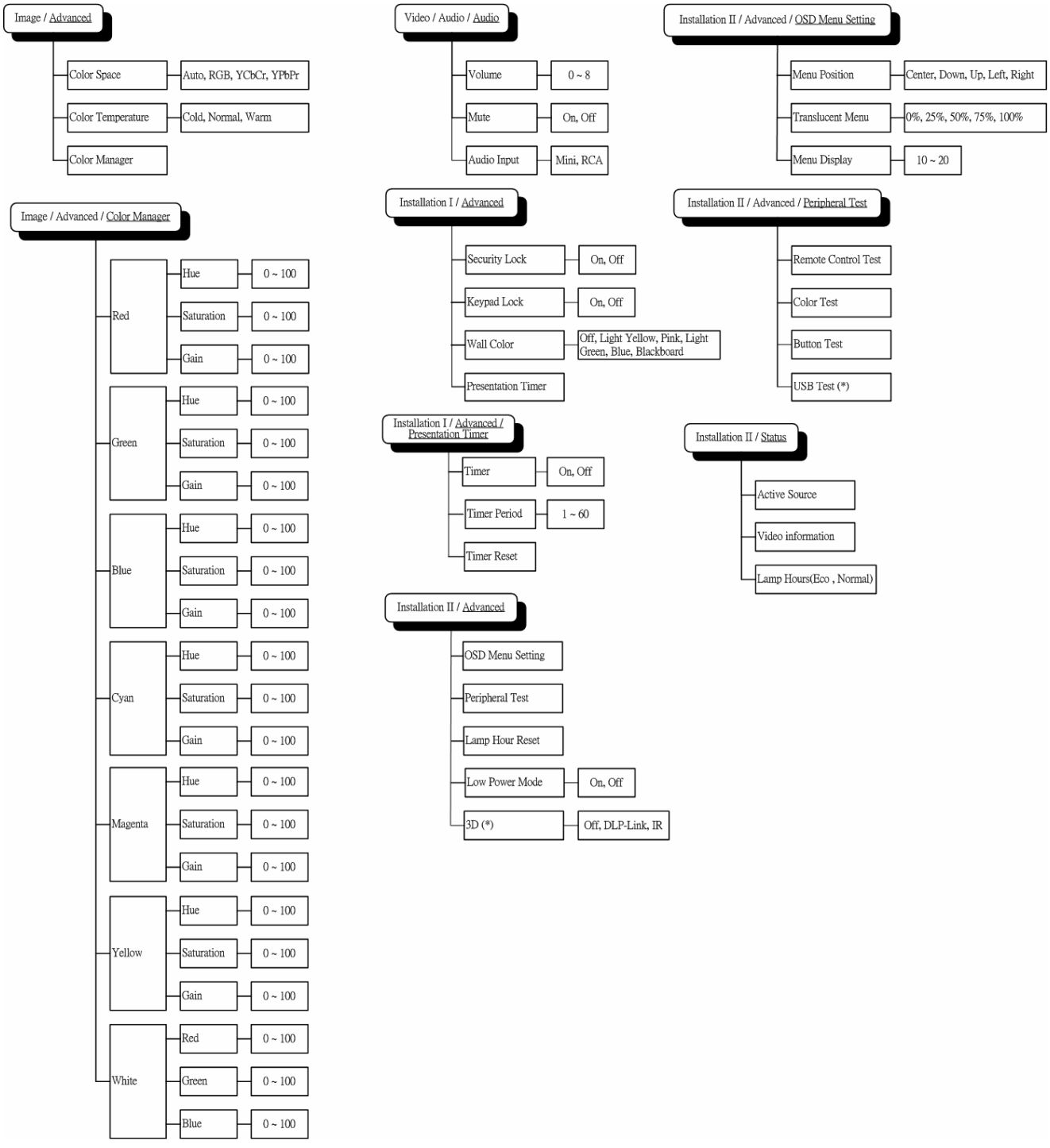
3. Press the cursor ◄► button until the language you want is highlighted.
4. Press the **MENU** button twice to close the OSD.

OSD Menu Overview

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



OSD Sub-Menu Overview

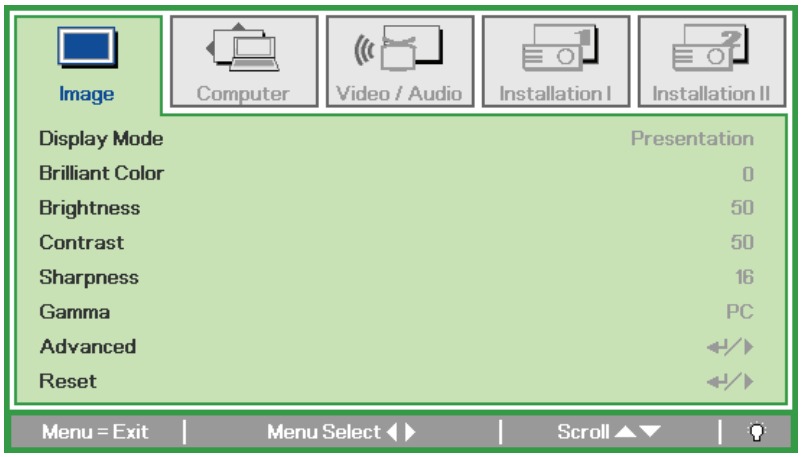


Note:

(*) Not available in D508 / D509

Image Menu

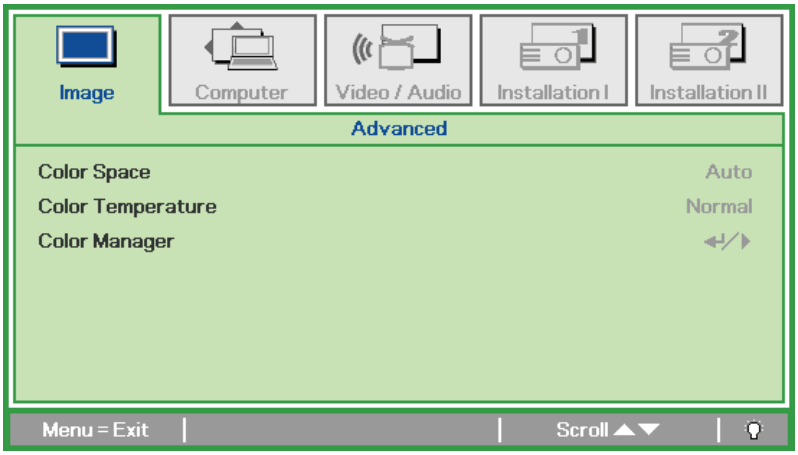
Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Image Menu**. Press the cursor ▲▼ button to move up and down in the **Image** menu. Press ◄► to change values for settings.



ITEM	DESCRIPTION
Display Mode	Press the cursor ◄► button to set the Display Mode.
Brilliant Color	Press the cursor ◄► button to adjust the Brilliant Color value.
Brightness	Press the cursor ◄► button to adjust the display brightness.
Contrast	Press the cursor ◄► button to adjust the display contrast.
Sharpness	Press the cursor ◄► button to adjust the display sharpness level.
Gamma	Press the cursor ◄► button to adjust the gamma correction of the display.
Advanced	Press ↵ (Enter) / ► to enter the Advanced menu. See *Advanced Feature* on page 23.
Reset	Press ↵ (Enter) / ► to reset all settings to default values.

Advanced Feature

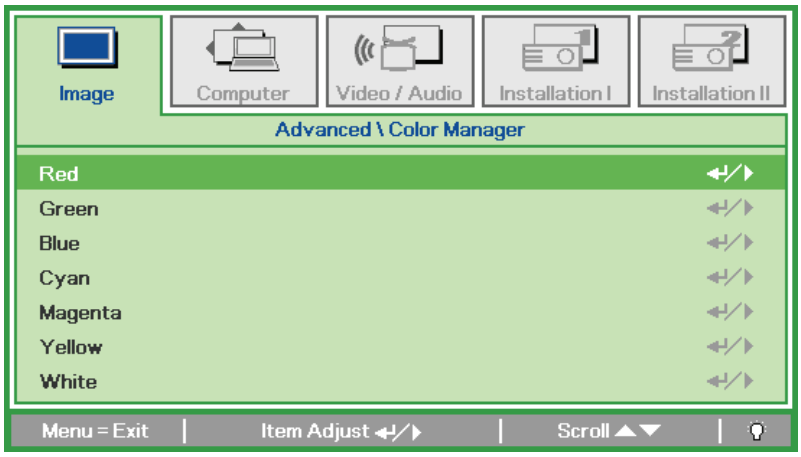
Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Image** menu. Press ▼▲ to move to the **Advanced** menu and then press **Enter** or ►. Press ▼▲ to move up and down in the **Advanced** menu.



ITEM	DESCRIPTION
Color Space	Press the cursor ◄► button to adjust the color space.
Color Temperature	Press the cursor ◄► button to adjust the color temperature.
Color Manager	Press ↵ (Enter) / ► to enter the color manager menu. See page 24 for more information on *Color Manager*.

Color Manager

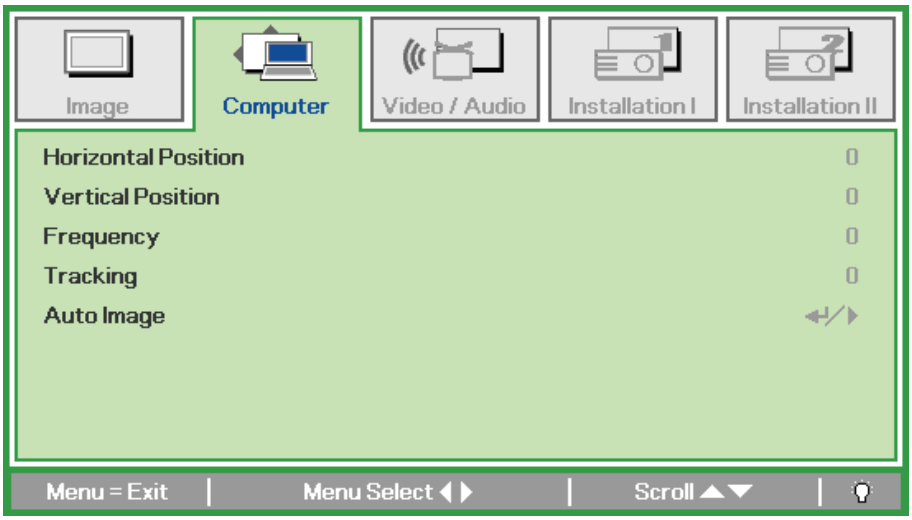
Press ↵ (Enter) / ► to enter the **Color Manager** sub menu.



ITEM	DESCRIPTION
Red	Select to enter the Red Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Green	Select to enter the Green Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Blue	Select to enter the Blue Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Cyan	Select to enter the Cyan Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Magenta	Select to enter the Magenta Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Yellow	Select to enter the Yellow Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
White	Select to enter the White Color Manager. Press the ◄► buttons to adjust the Red, Green, and Blue.

Computer Menu

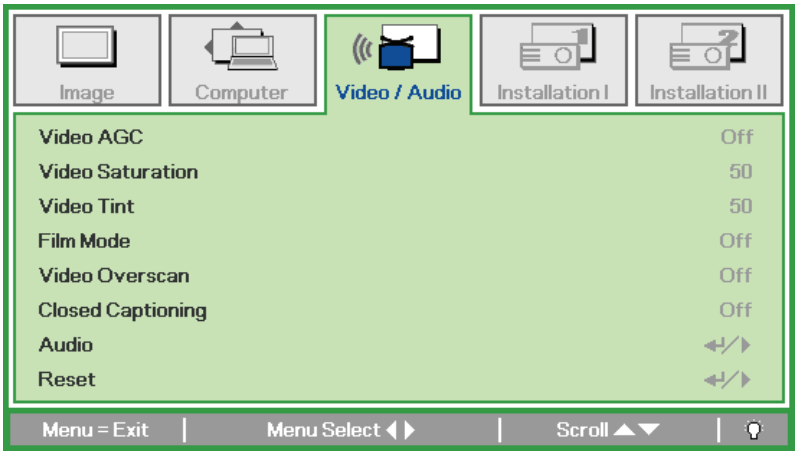
Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Computer** menu. Press the cursor ▲▼ button to move up and down in the computer menu. Press ◄► to change values for settings.



ITEM	DESCRIPTION
Horizontal Position	Press the cursor ◄► button to adjust the display position to left or right.
Vertical Position	Press the cursor ◄► button to adjust the display position to up or down.
Frequency	Press the cursor ◄► button to adjust the A/D sampling clock.
Tracking	Press the cursor ◄► button to adjust the A/D sampling dot.
Auto Image	Press ↵ (Enter) / ► to automatically adjustment for phase, tracking, size and position.

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.

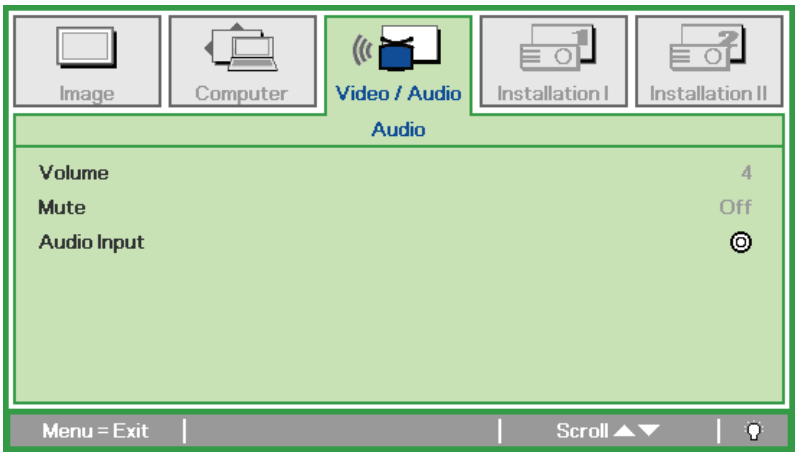


ITEM	DESCRIPTION
Video AGC	Press the ◄► buttons to enable or disable the Automatic Gain Control for video source.
Video Saturation	Press the ◄► buttons to adjust the video saturation.
Video Tint	Press the ◄► buttons to adjust the video tint/hue.
Film Mode	Press the ◄► buttons to select a different film mode.
Video Overscan	Press the ◄► buttons to enable or disable video over scan.
Closed Captioning	Press the ◄► buttons to enable or disable Closed Captioning
Audio	Press ↵ (Enter) / ► to enter the Audio menu. See *Audio* on page 27.
Reset	Press ↵ (Enter) / ► to reset all settings to default values.

Note:
Video jagging may occur when playing interlace video. To overcome this issue, open the Video / Audio menu and adjust the Film Mode feature.

Audio

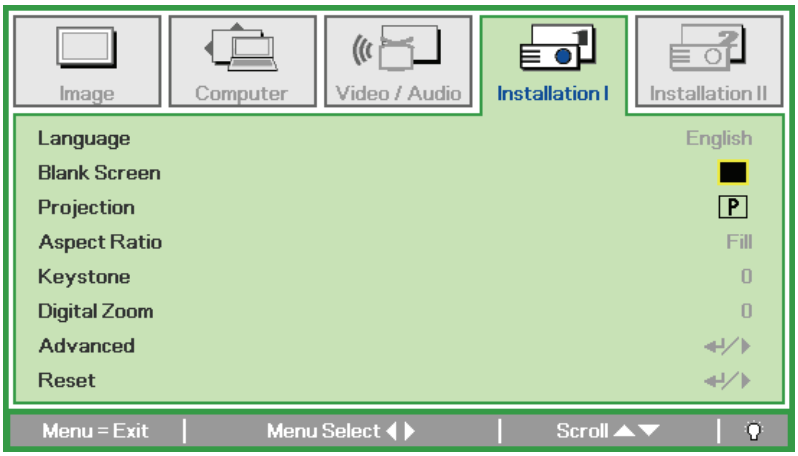
Press ↵ (Enter) / ► to enter the **Audio** sub menu.



ITEM	DESCRIPTION
Volume	Press the ◄► buttons to adjust the audio volume.
Mute	Press the ◄► buttons to turn on or off the speaker.
Audio Input	Press the cursor ◄► button to select audio input.

Installation I Menu

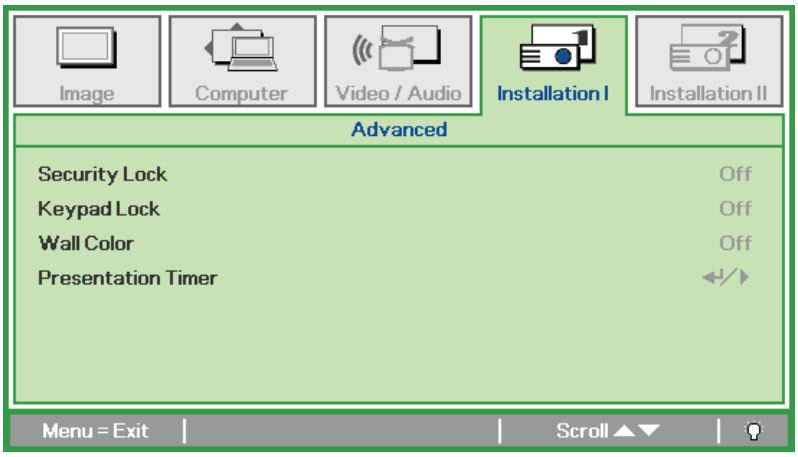
Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Installation I** menu. Press the cursor ▲▼ button to move up and down in the **Installation I** menu. Press ◄► to change values for settings.



ITEM	DESCRIPTION
Language	Press the cursor ◄► button to select a different localization Menu.
Blank Screen	Press the cursor ◄► button to select different color to blank the screen.
Projection	Press the cursor ◄► button to choose from four projection methods:
Aspect Ratio	Press the cursor ◄► button to adjust the video aspect ratio.
Keystone	Press the cursor ◄► button to adjust the display keystone.
Digital Zoom	Press the cursor ◄► button to adjust the Digital Zoom menu.
Advanced	Press ↵ (Enter) / ► to enter the Advanced menu. See *Advanced Feature* on page 31.
Reset	Press ↵ (Enter) / ► to reset all settings to default values (expect Language and Security Lock).

Advanced

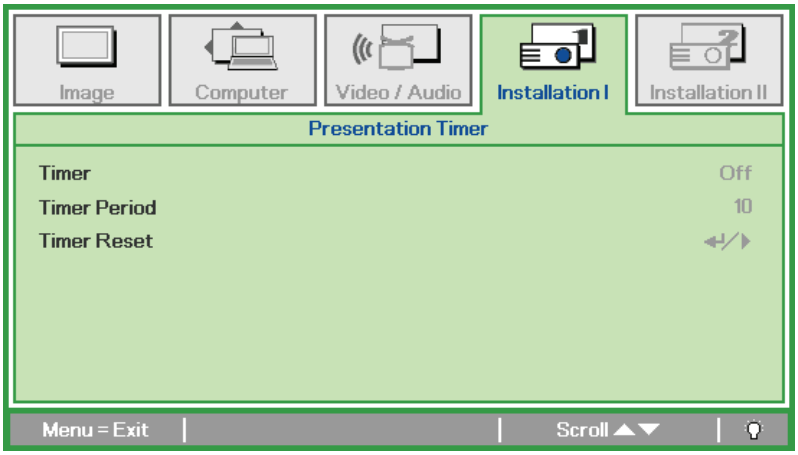
Press ↵ (Enter) / ► to enter the **Advanced** sub menu.



ITEM	DESCRIPTION
Security Lock	Press the cursor ◄► button to enable or disable security lock function.
Keypad Lock	Press the cursor ◄► button to enable or disable keypad lock function.
Wall Color	Press the cursor ◄► button to select different wall color setting.
Presentation Timer	Press ↵ (Enter) / ► to enter the Presentation menu. See *Presentation Timer* on page 31.

Presentation Timer

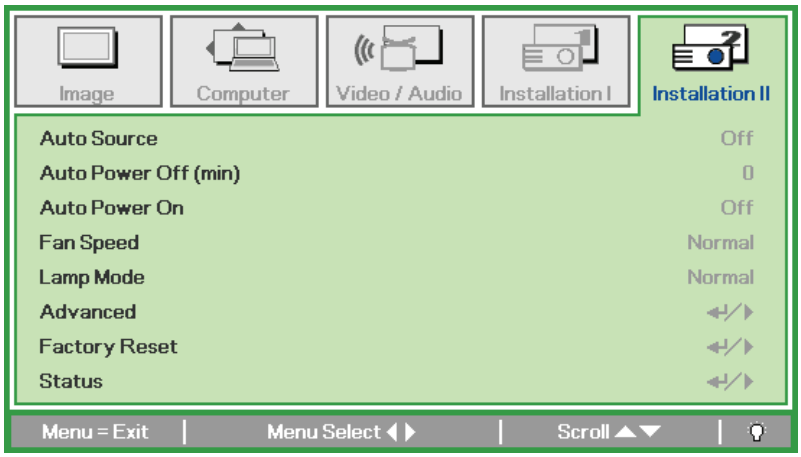
Press ↵ (Enter) / ► to enter the **Presentation Timer** sub menu.



ITEM	DESCRIPTION
Timer	Press the cursor ◄► button to enable or disable presentation timer function.
Timer Period	Press the cursor ◄► button to adjust the display timer period.
Timer Reset	Press ↵ (Enter) / ► to reset presentation timer counter.

Installation II Menu

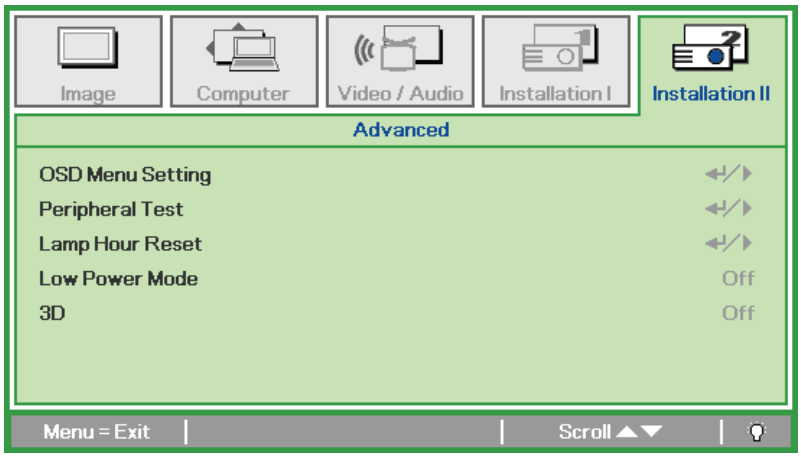
Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Installation II** menu. Press the cursor ▲▼ button to move up and down in the Installation II menu.



ITEM	DESCRIPTION
Auto Source	Press the cursor ◄► button to enable or disable automatic source detection.
Auto Power Off (min.)	Press the cursor ◄► button to enable or disable automatic shutdown of lamp when no signal.
Auto Power On	Press the cursor ◄► button to enable or disable automatic power On when AC power is supplied.
Fan Speed	Press the cursor ◄► button to toggle between Normal and High fan speeds. **Note**: We recommend selecting high speed in high temperatures, high humidity, or high altitude areas.
Lamp Mode	Press the cursor ◄► button to select the lamp mode for higher brightness or lower brightness to save lamp life.
Advanced	Press ↵ (Enter) / ► to enter the Advanced menu. See *Advanced Feature* on page 31.
Factory Reset	Press ↵ (Enter) / ► to reset all items to factory preset values.
Status	Press ↵ (Enter) / ► to enter the Status menu. See page 34 for more information on *Status*.

Advanced Feature

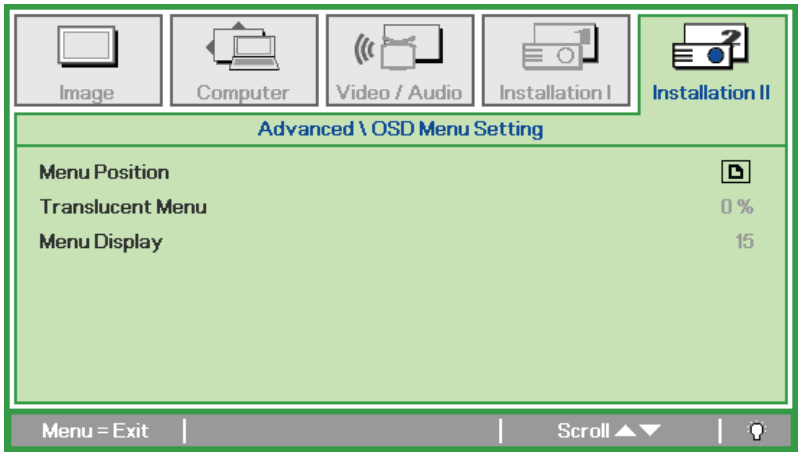
Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Installation II** menu. Press ▲▼ to move to the **Advanced** menu and then press **Enter** or ►. Press ▲▼ to move up and down in the **Advanced** menu. Press ◄► to change values for setting.



ITEM	DESCRIPTION
OSD Menu Setting	Press Enter / ► to enter the OSD setting menu. See page 32 for more information on *OSD Menu Setting*.
Peripheral Test	Press Enter/ ► to enter the Peripheral Test menu. See page 32 for more information on *Peripheral* Test.
Lamp Hour Reset	After replacing the lamp, this item should be reset. See page 33 for more information on *Lamp Hour Reset*.
Low Power Mode	Press ◄► to turn Low Power Mode on or off.
3D	Press ◄► to disable or enable different 3D mode.

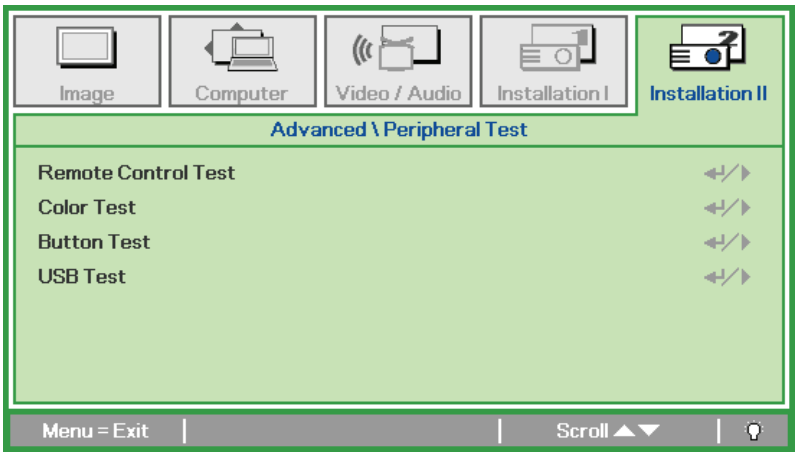
Note:
To enjoy the 3D function, first enable the Play Movie in 3D setting found in your DVD device under the 3D Disc Menu.

OSD Menu Setting



ITEM	DESCRIPTION
Menu Position	Press ◄► button to select different OSD location.
Translucent Menu	Press ◄► button to select OSD background translucent level.
Menu Display	Press ◄► button to select OSD timeout delay.

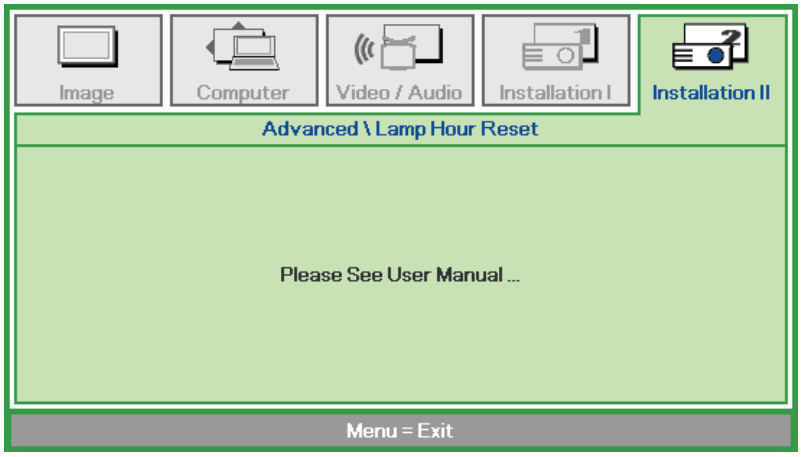
Peripheral Test



ITEM	DESCRIPTION
Remote Control Test	Press ↵ (Enter) / ► to test the IR remote controller for diagnostic.
Color Test	Press ↵ (Enter) / ► to select different colors on screen.
Button Test	Press ↵ (Enter) / ► to test the button on keypad.
USB Test (*)	Press ↵ (Enter) / ► to test the USB connection with connected PC.

Note:
(*) Not available in D508 / D509

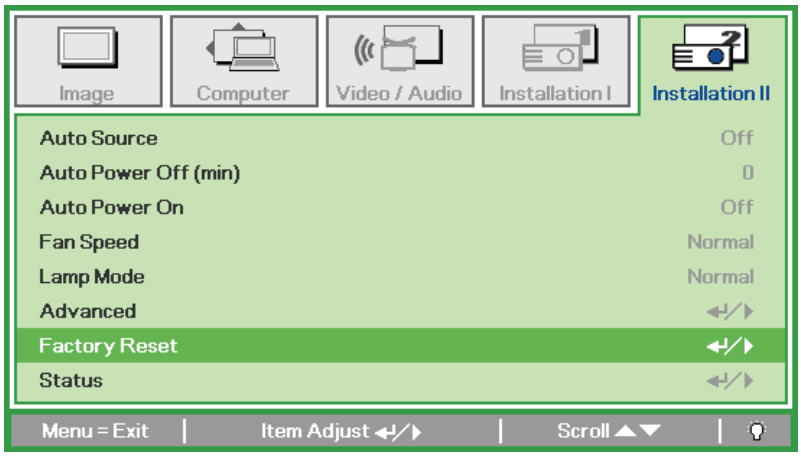
Lamp Hour Reset



Please refer to *Resetting the Lamp* on page 37 to reset the lamp hour counter.

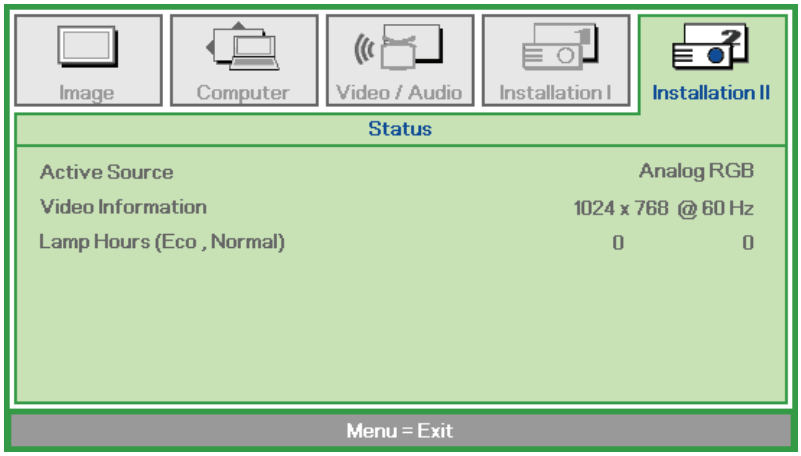
Factory Reset

Press the cursor ▲▼ button to move up and down in the **Installation II** menu. Select the **Factory Reset** sub menu and press ↵ (Enter) / ► to reset all the menu items to the factory default values (expect Language and Security Lock).



Status

Press the cursor ▲▼ button to move up and down in the **Installation II** menu. Select the **Installation II** sub menu and press ↵ (Enter) / ► to enter the **Status** sub menu.



ITEM	DESCRIPTION
Active Source	Display the activated source.
Video Information	Displays resolution/video information for RGB source and color standard for Video source.
Lamp Hours	Lamp hour used information is displayed. Eco and Normal counters are separated.

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.

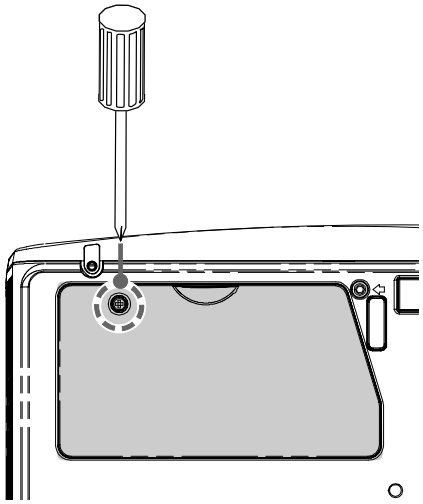
Important:
a. *The projection lamp used in this product contains a small amount of mercury.*

b. *Do not dispose this product with general household waste.*

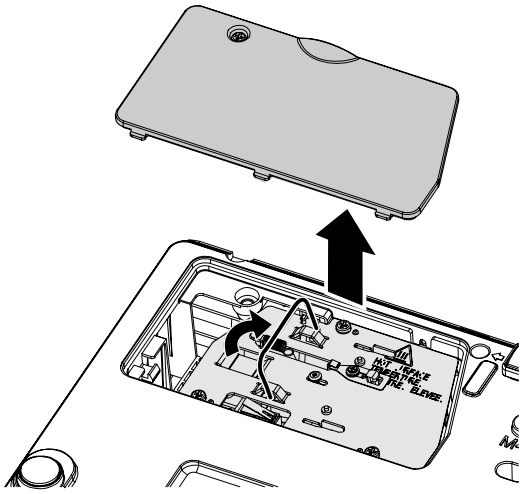
c. *Disposal of this product must be carried out in accordance with the regulations of your local authority.*

Warning:
Be sure to turn off and unplug the projector at least 30 minutes before replacing the lamp. Failure to do so could result in a severe burn.

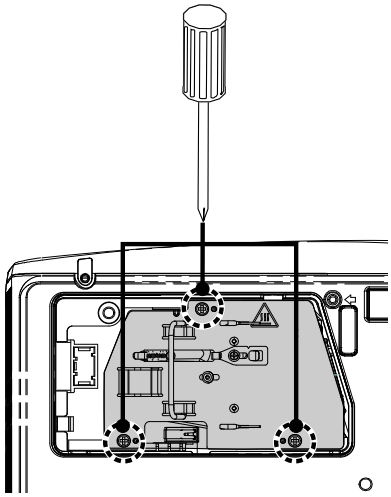
1. Loosen the captive screw on the lamp compartment cover.



2. Remove the lamp compartment cover.



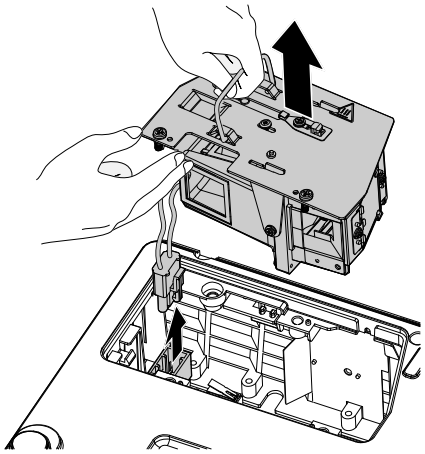
3. Remove the threeo screws from the lamp module.



4. Lift the module handle up.

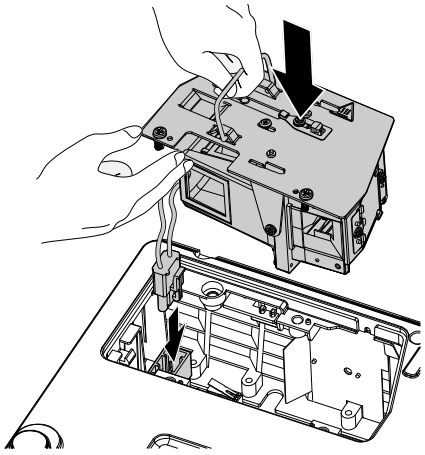
5. Disconnect the lamp connector.

6. Pull firmly on the module handle to remove the lamp module.



7. Reverse steps 1 to 6 to install the new lamp module. While installing, align the lamp module with the connector and ensure it is level to avoid damage.

Note: The lamp module must sit securely in place and the lamp connector must be connected properly before tightening the screws.

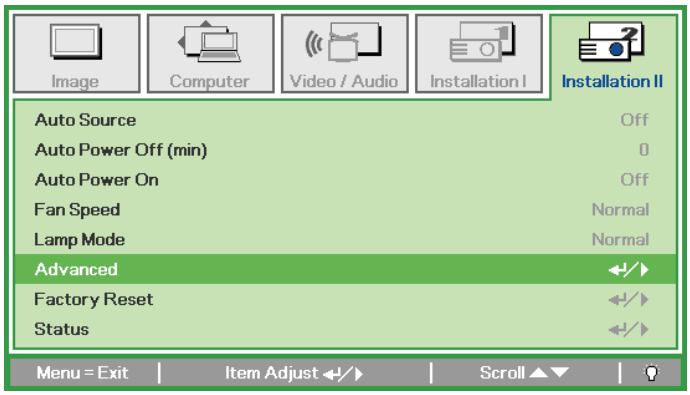


Resetting the Lamp

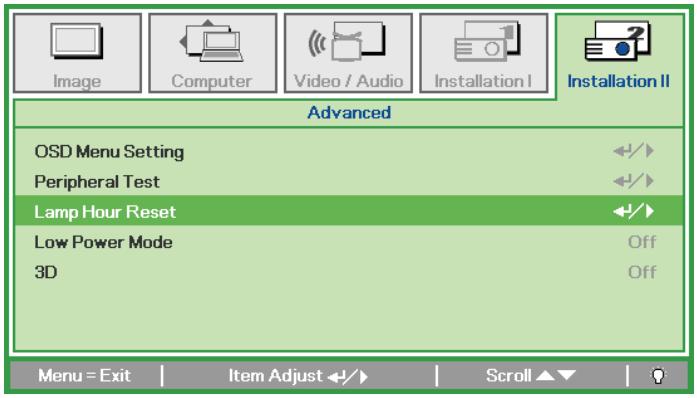
After replacing the lamp, you should reset the lamp hour counter to zero. Refer to the following:

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

2. Press the cursor ◄► button to move to the **Installation II** menu. Press the cursor button to move down to **Advanced**.



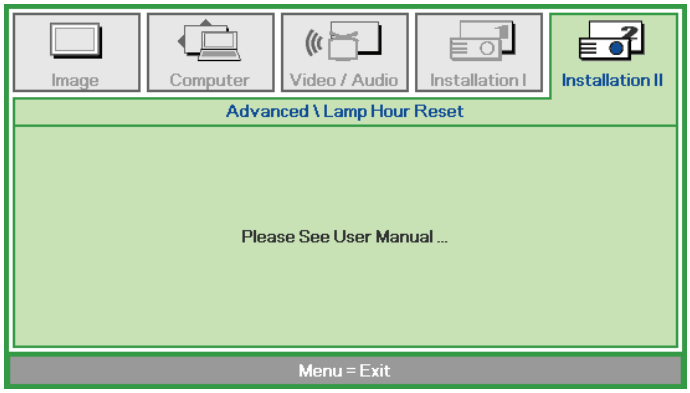
3. Press the cursor ▼▲ button to move down to **Lamp Hour Reset**.



4. Press the cursor ► or Enter button.

A message screen appears.

5. Press ▼▲◄► buttons to reset the lamp hour.



6. Press the **MENU** button to get back to Installation II.

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 30 minutes 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

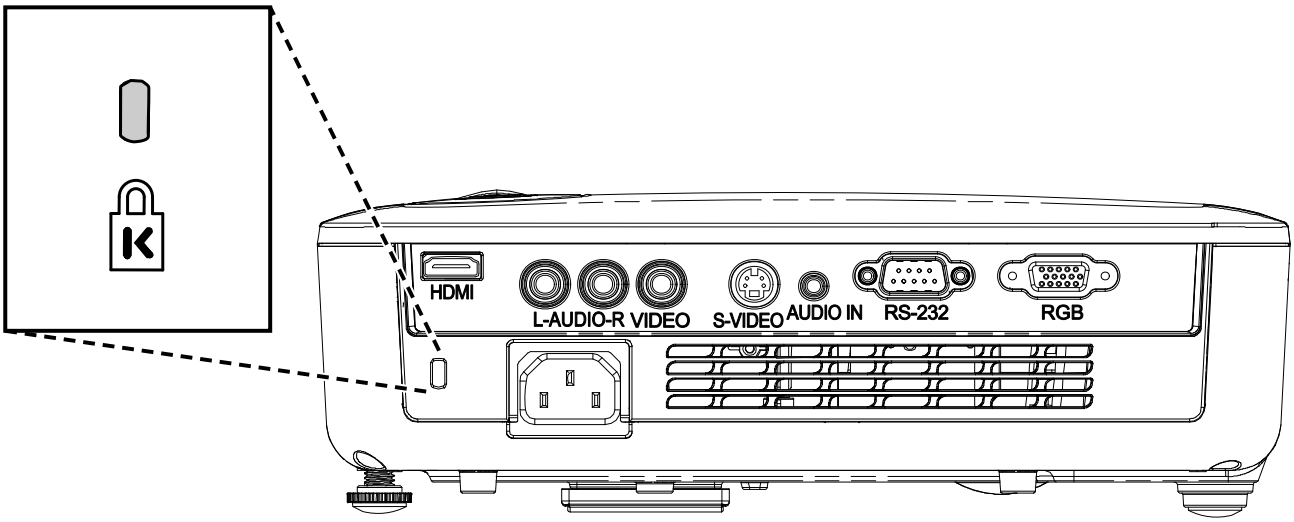
Refer to the following to clean the projector case.

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, CA 94403, U.S.A. Tel: 800-535-4242, *http://www.Kensington.com*.

TROUBLESHOOTING

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 suspending 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 Messages	Power LED Blink	Over Temp LED	Lamp LED Blink
Over temperature	0	ON	0
Thermal break status error	4	0	0
Lamp error	0	0	On
Fan1 error	6	0	1
Fan2 error	6	0	2
Fan3 error	6	0	3
Lamp door open	7	0	0
DMD error	8	0	0
Color wheel error	9	0	0

In the event of an error, please disconnect the AC power cord and wait for one (1) minute before re-starting the projector. If the Power or Lamp LEDs are still blinking or the Over Temp LED is lit, contact your service center.

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

Check the **Projection** setting on the **Installation I** menu of the OSD.

Problem: The image is streaked

1. Set the **Frequency** and **Tracking** settings on the **Computer** 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 **Image** 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 **Image** 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. Re-plug power cord. When the Power 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.

Having the Projector Serviced

If you are unable to solve the problem, you should have the projector serviced. Pack the projector in the original carton. Include a description of the problem and a checklist of the steps you took when trying to fix the problem: The information may be useful to service personnel. For servicing, return the projector to the place you purchased it.

HDMI Q & A

Q. What is the difference between a "Standard" HDMI cable and a "High-Speed" HDMI cable?

Recently, HDMI Licensing, LLC announced that cables would be tested as Standard or High-Speed cables.

- Standard (or "category 1") HDMI cables have been tested to perform at speeds of 75Mhz or up to 2.25Gbps, which is the equivalent of a 720p/1080i signal.
- High Speed (or "category 2") HDMI cables have been tested to perform at speeds of 340Mhz or up to 10.2Gbps, which is the highest bandwidth currently available over an HDMI cable and can successfully handle 1080p signals including those at increased color depths and/or increased refresh rates from the Source. High-Speed cables are also able to accommodate higher resolution displays, such as WQXGA cinema monitors (resolution of 2560 x 1600).

Q. How do I run HDMI cables longer than 10 meters?

There are many HDMI Adopters working on HDMI solutions that extend a cable's effective distance from the typical 10 meter range to much longer lengths. These companies manufacture a variety of solutions that include active cables (active electronics built into cables that boost and extend the cable's signal), repeaters, amplifiers as well as CAT5/6 and fiber solutions.

Q. How can I tell if a cable is an HDMI certified cable?

All HDMI products are required to be certified by the manufacturer as part of the HDMI Compliance Test Specification. However, there may be instances where cables bearing the HDMI logo are available but have not been properly tested. HDMI Licensing, LLC actively investigates these instances to ensure that the HDMI trademark is properly used in the market. We recommend that consumers buy their cables from a reputable source and a company that is trusted.

For more detail information check http://www.hdmi.org/learningcenter/faq.aspx#49

Specifications

D5 Economic series

Model	D508	D510/D510S	D509	D511
Display type	TI DMD SVGA 0.55"		TI DMD XGA 0.55"	
Resolution	SVGA 800x600 Native		XGA 1024x768 Native	
Projection distance	1 meters ~ 10 meters			
Projection screen size	40 to 300 inches			
Projection lens	Manual Focus	Manual Focus/ Zoom	Manual Focus	Manual Focus/ Zoom
Zoom ratio	Fixed	1.1	Fixed	1.1
Throw ratio	1.98	1.93-2.16	1.98	1.93-2.16
Vertical keystone correction	+/- 30 degrees			
Projection methods	Front, Rear, Desktop/Ceiling (Rear, Front)			
Data compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, Mac			
SDTV / EDTV / HDTV	480i, 480p, 720p, 1080i, 1080p			
Video compatibility	NTSC/NTSC 4.43, PAL (B/G/H/I/M/N/60), SECAM			
H-Sync	15, 30 – 90 kHz			
V-Sync	43 – 85 Hz			
Safety certification	FCC-B, cUL, UL, CE, C-tick, CCC, KC, CB, PCT, PSB, ICES-003			
Operation temperature	5° ~ 35°C			
Dimensions (WxHxD)	261.3 mm x 190.7 mm x 78 mm (10.33" x 7.8" x 3")			
AC Input	AC Universal 100 ~ 240, Typical @ 110VAC (100~240)/+-10%			
Power consumption	Typical 230W (Normal) / Typical 205W (Eco)			
Stand By	<1 watts			
Lamp	180W (Normal) / 160W (Eco)			
Audio speaker	1W mono speaker			
Input Terminals	VGA (15pin D-Sub) x 1			
	S-Video x 1			
	Composite Video x 1			
	-	HDMI	-	HDMI
	RCA stereo x 1			
	Mini-jack stereo x 1			
Control Terminals	USB	RS-232C	USB	RS-232C
Security	Kensington lock			

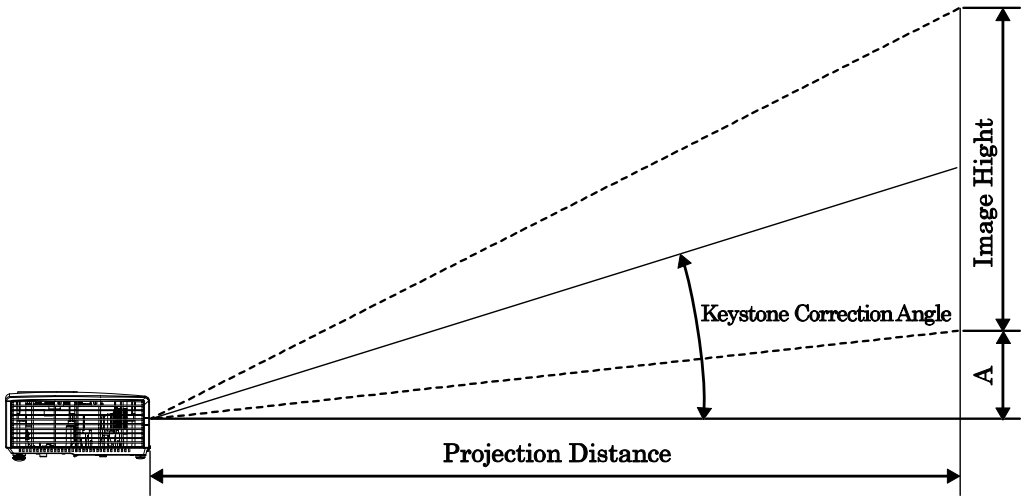
D5 Advanced SVGA/XGA series

Model	D520ST	D530	D525ST	D535
Display type	TI DMD SVGA 0.55"		TI DMD XGA 0.55"	
Resolution	SVGA 800x600 Native		XGA 1024x768 Native	
Projection distance	0.8 ~ 5m	1 ~ 10m	0.8 ~ 5m	1 ~ 10m
Projection screen size	44" ~ 300"	40" ~ 300"	44" ~ 300"	40" ~ 300"
Projection lens	Manual Focus	Manual Focus/ Zoom	Manual Focus/ Zoom	Manual Focus/ Zoom
Zoom ratio	Fixed	1.1	1.1	1.1
Throw ratio	0.9	1.93-2.16	0.9-0.99	1.93-2.16
Vertical keystone correction	+/- 30 degrees			
Projection methods	Front, Rear, Desktop/Ceiling (Rear, Front)			
Data compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, Mac			
SDTV/EDTV/ HDTV	480i, 480p, 720p, 1080i, 1080p			
Video compatibility	NTSC/NTSC 4.43, PAL (B/G/H/I/M/N/60), SECAM			
H-Sync	15, 30 – 90 kHz			
V-Sync	43 – 85 Hz			
Safety certification	FCC-B, cUL, UL, CE, C-tick, CCC, KC, CB, PCT, PSB, ICES-003			
Operation temperature	5° ~ 35°C			
Dimensions (WxHxD)	261.3 mm x 190.7 mm x 78 mm (10.33" x 7.8" x 3")			
AC Input	AC Universal 100 ~ 240, Typical @ 110VAC (100~240)/+-10%			
Power consumption	Typical 300W (Normal) / Typical 230W (Eco)			
Stand By	<1 watts			
Lamp	240W (Normal) / 180W (Eco)			
Audio speaker	1W mono speaker			
Input Terminals	VGA (15pin D-Sub) x 1			
	S-Video x 1			
	Composite Video x 1			
	HDMI			
	RCA stereo x 1			
	Mini-jack stereo x 1			
Control Terminals	RS-232C			
Security	Kensington lock			

D5 Advanced WXGA series

Model	D513W	D537W	D522ST
Display type	TI DMD WXGA 0.65"		
Resolution	WXGA 1280x800 Native		
Projection distance	1.27 ~ 10m		0.8 ~ 5m
Projection screen size	40" ~ 300"		50" ~ 300"
Projection lens	Manual Focus/Zoom		Manual Focus/Zoom
Zoom ratio	1.15		1.1
Throw ratio	1.52 ~ 1.76		0.72 ~ 0.79
Vertical keystone correction	+/- 30 degrees		
Projection methods	Front, Rear, Desktop/Ceiling (Rear, Front)		
Data compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, Mac		
SDTV/EDTV/ HDTV	480i, 480p, 720p, 1080i, 1080p		
Video compatibility	NTSC/NTSC 4.43, PAL (B/G/H/I/M/N/60), SECAM		
H-Sync	15, 30 – 90 kHz		
V-Sync	43 – 85 Hz		
Safety certification	FCC-B, cUL, UL, CE, C-tick, CCC, KC, CB, PCT, PSB, ICES-003		
Operation temperature	5° ~ 35°C		
Dimensions (WxHxD)	261.3 mm x 190.7 mm x 78 mm (10.33" x 7.8" x 3")		
AC Input	AC Universal 100 ~ 240, Typical @ 110VAC (100~240)/+-10%		
Power consumption	Typical 230W (Normal) / Typical 205W (Eco)	Typical 300W (Normal) / Typical 230W (Eco)	
Stand By	<1 watts		
Lamp	180W (Normal) / 160W (Eco)	240W (Normal) / 180W (Eco)	
Audio speaker	1W mono speaker		
Input Terminals	VGA (15pin D-Sub) x 1		
	S-Video x 1		
	Composite Video x 1		
	HDMI		
	RCA stereo x 1		
	Mini-jack stereo x 1		
Control Terminals	RS-232C		
Security	Kensington lock		

Projection Distance vs. Projection Size



D5 Series Projection Distance and Size Table

D508/ D509	FIXED			
Distance (m)	1.22	3.25	4.06	8.13
Diagonal Size (inches)	30	80	100	200
Keystone (degree)	30	30	30	30
Image Height (mm)	457	1219	1524	3048
Image Width (mm)	610	1626	2032	4064
A (mm)	64	171	213	427

D510/D510S/D511/ D530/ D535	TELE				WIDE			
Distance (m)	1.32	3.58	4.39	8.78	1.57	3.14	3.93	11.77
Diagonal (inches)	30	80	100	200	40	80	100	300
Keystone (degree)	30	30	30	30	30	30	30	30
Image Height (mm)	457	1219	1524	3048	610	1219	1524	4572
Image Width (mm)	610	1626	2032	4064	813	1626	2032	6096
A (mm)	64	171	213	427	85	171	213	640

D520ST	FIXED			
Distance (m)	0.8	1	2	3
Diagonal Size (inches)	44	55	110	165
Keystone (degree)	30	30	30	30
Image Height (mm)	671	838	1676	2515
Image Width (mm)	894	1118	2235	3353
A (mm)	94	117	235	352

D525ST XGA	TELE				WIDE			
Distance (m)	0.8	1	2	3	0.8	1	2	3
Diagonal (inches)	40	50	100	149	44	55	110	165
Keystone (degree)	30	30	30	30	30	30	30	30
Image Height (mm)	610	762	1524	2271	671	838	1676	2515
Image Width (mm)	813	1016	2032	3028	894	1118	2235	3353
A (mm)	85	107	213	318	94	117	235	352

D522ST WXGA	TELE				WIDE			
Distance (m)	0.8	1	2	3	0.8	1	2	3
Diagonal (inches)	46	57	114	172	50	63	125	188
Keystone (degree)	30	30	30	30	30	30	30	30
Image Height (mm)	570	712	1424	2136	625	781	1563	2344
Image Width (mm)	1013	1266	2532	3797	1111	1389	2778	4167
A (mm)	66	82	164	246	72	90	180	270

D513W/ D537W	TELE				WIDE			
Distance (m)	1.27	3.9	7.8	10	1.33	3.35	6.72	10
Diagonal (inches)	33	100	200	257	40	100	200	297
Keystone (degree)	30	30	30	30	30	30	30	30
Image Height (mm)	406	1246	2493	3196	492	1240	2487	3701
Image Width (mm)	722	2216	4432	5682	875	2204	4421	6579
A (mm)	47	143	287	368	57	143	286	426

D5 Series Timing Mode Table

SIGNAL	RESOLUTION	H-SYNC (KHZ)	V-SYNC (HZ)	COMPOSITE / S-VIDEO	COMPONENT	RGB	DVI/HDMI
NTSC	–	15.734	60.0	O	–	–	–
PAL/SECAM	–	15.625	50.0	O	–	–	–
VESA	720 x 400	37.9	85.0	–	–	O	O
	640 x 480	31.5	60.0	–	–	O	O
	640 x 480	37.9	72.0	–	–	O	O
	640 x 480	37.5	75.0	–	–	O	O
	640 x 480	43.3	85.0	–	–	O	O
	800 x 600	35.2	56.0	–	–	O	O
	800 x 600	37.9	60.0	–	–	O	O
	800 x 600	48.1	72.0	–	–	O	O
	800 x 600	46.9	75.0	–	–	O	O
	800 x 600	53.7	85.0	–	–	O	O
	1024 x 768	48.4	60.0	–	–	O	O
	1024 x 768	56.5	70.0	–	–	O	O
	1024 x 768	60.0	75.0	–	–	O	O
	1024 x 768	68.7	85.0	–	–	O	O
	1280 x 800	49.7	59.8	–	–	O	O
	1280 x 800	62.8	74.9	–	–	O	O
	1280 x 800	71.6	84.8	–	–	O	O
	1280 x 1024	63.98	60.0	–	–	O	O
	1280 x 1024	79.98	75.0	–	–	O	O
	1280 x 1024	91.10	85.0	–	–	O	O
	1280 x 960	60.0	60.0	–	–	O	O
	1280 x 960	85.9	85.0	–	–	O	O
	1400 x 1050	65.3	60.0	–	–	O	O
	1440 x 900	70.6	75.0	–	–	O	O
	1440 x 900	55.6	60.0	–	–	O	O

SIGNAL	RESOLUTION	H-SYNC (KHZ)	V-SYNC (HZ)	COMPOSITE / S-VIDEO	COMPONENT	RGB	DVI/HDMI
	1600 x 1200	75.0	60.0	—	—	O	O
Apple Mac	640 x 480	35.0	66.68	—	—	O	O
	832 x 624	49.725	74.55	—	—	O	O
	1024 x 768	60.24	75.0	—	—	O	O
	1152 x 870	68.68	75.06	—	—	O	O
SDTV	480i	15.734	60.0	—	O	—	O
	576i	15.625	50.0	—	O	—	O
EDTV	480p	31.469	60.0	—	O	—	O
	576p	31.25	50.0	—	O	—	O
HDTV	720p	37.5	50.0	—	O	—	O
	720p	45.0	60.0	—	O	—	O
	1080i	33.8	60.0	—	O	—	O
	1080i	28.1	50.0	—	O	—	O
	1080p	67.5	60.0	—	O	—	O
	1080p	56.3	50.0	—	O	—	O

O: Frequency supported

—: Frequency not supported

* : Displayable level

The resolution of the panel is listed below:

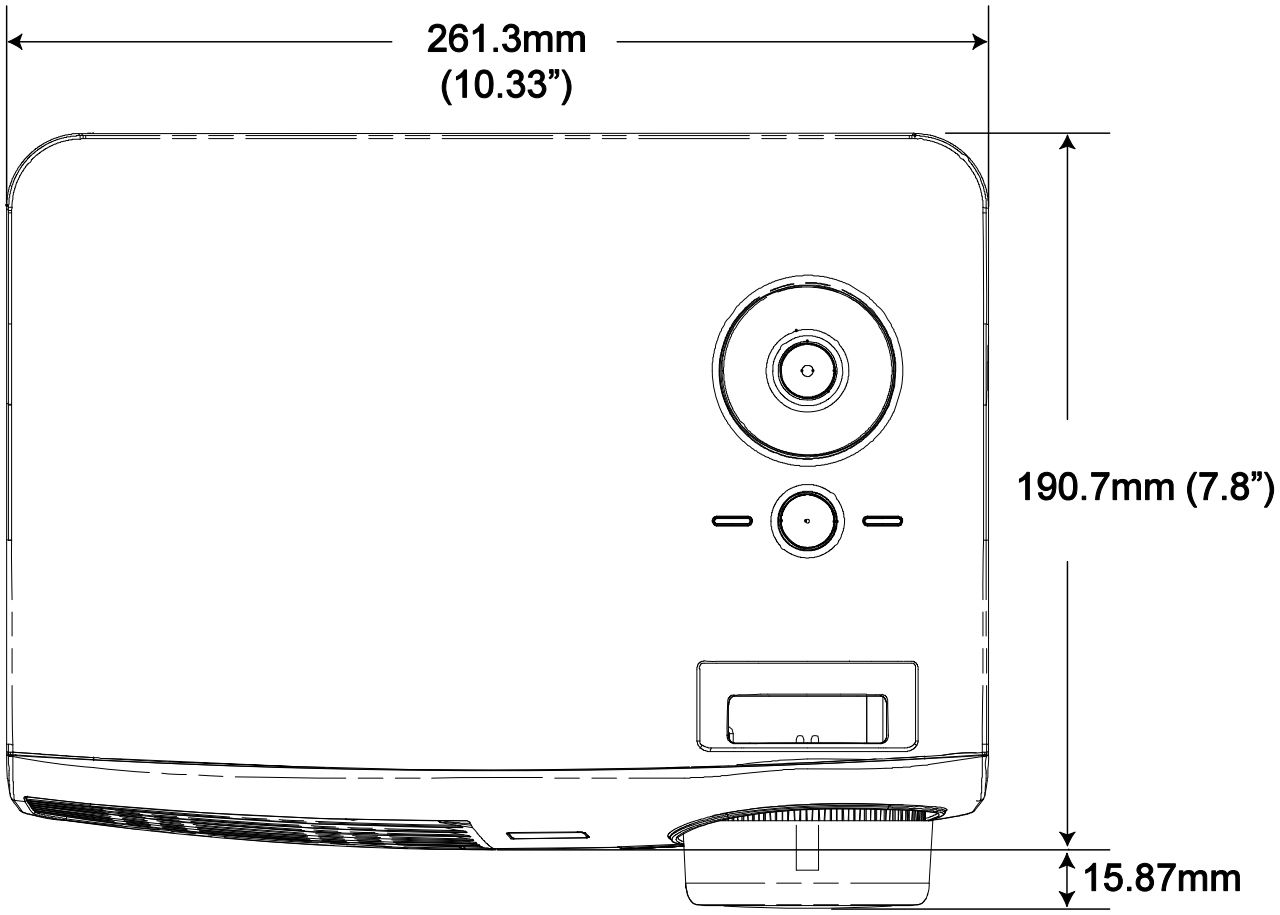
D508/D510/D520ST/D530 – 800 x 600

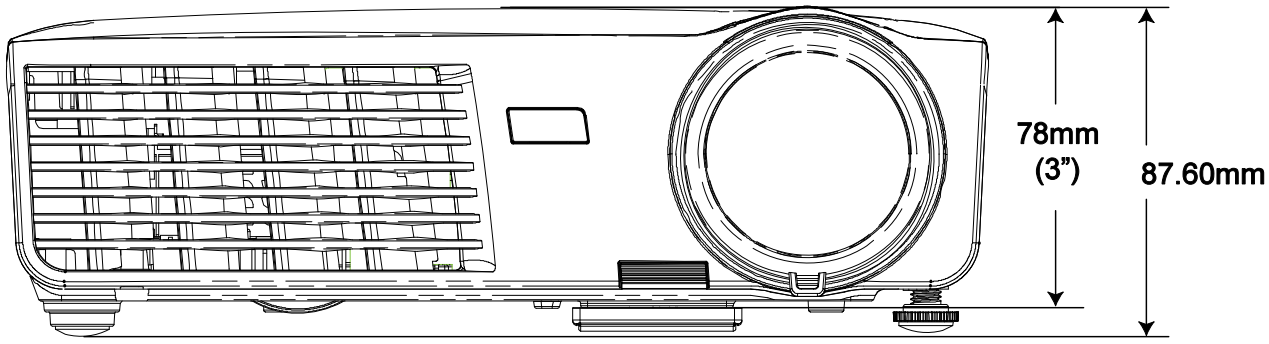
D509/D511/D525ST/D535 – 1024 x 768

D513W/D537W/D522ST – 1280 x 800

Resolution other than native resolution may display 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/her 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-B, UL, cUL, CB, CE, CCC, KC, PCT, PSB, ICES-003, and C-tick.