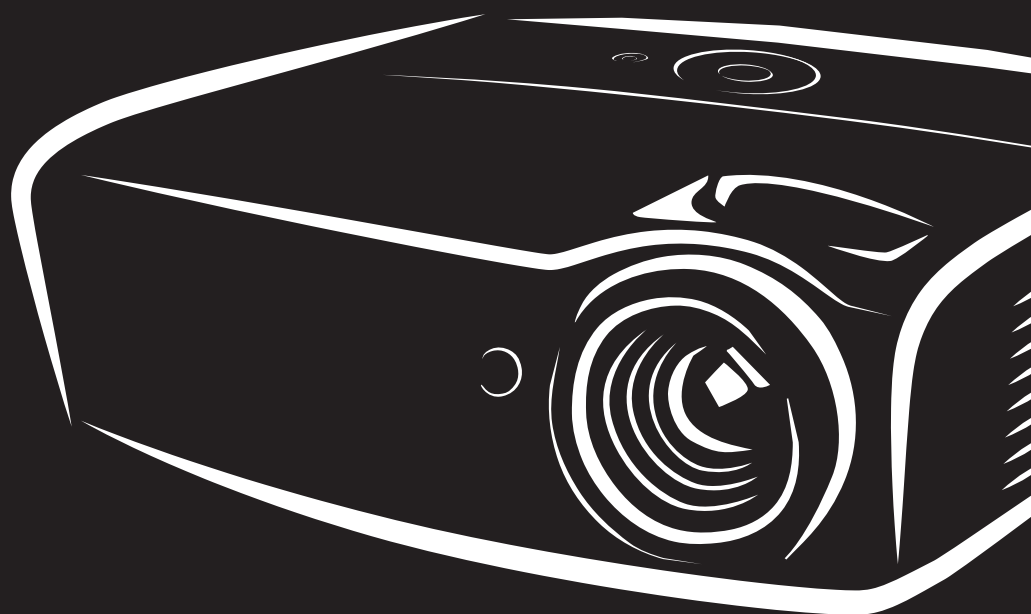


DH558 DH559 Series



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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:

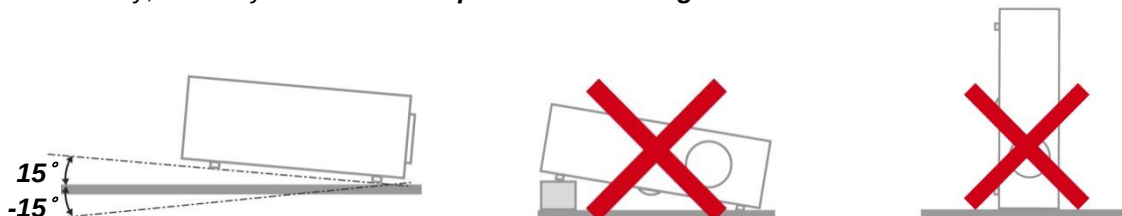
“Push the **Menu** button on the remote control to open the **Main** menu.”

General Safety Information

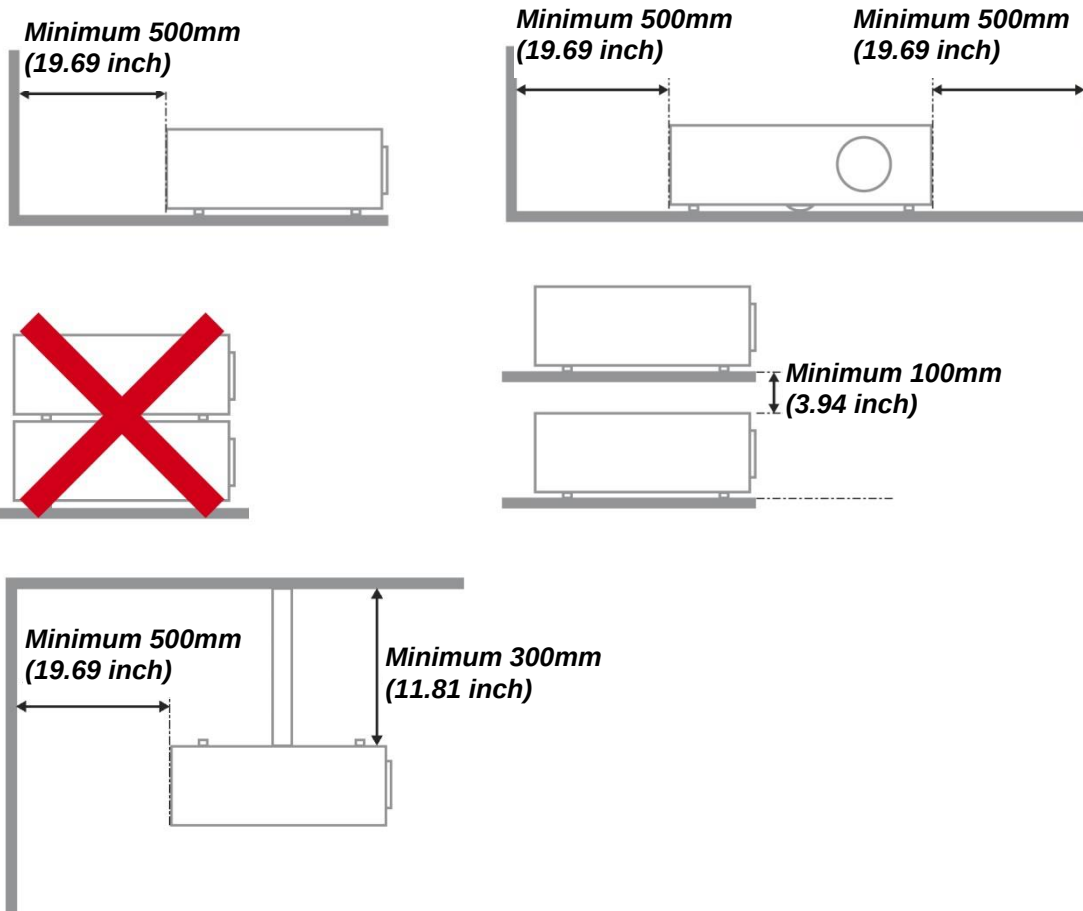
- Do not open the unit case. Aside from the projection lamp, there are no user-serviceable parts in the unit. For servicing, contact qualified service personnel.
- Follow all warnings and cautions in this manual and on the unit case.
- The projection lamp is extremely bright by design. To avoid damage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



- 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 operation temperature 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 within the acceptable operation temperature range.

Verify Installation Location

- To supply power, the 3-blade (with earthing lead) socket should be used to ensure proper grounding and equalized ground potential for all of the equipment in the Projector System.
- The power code provided with the Projector should be used. In case of any missing item, other qualified 3-blade (with earthing lead) power cord can be used as substitution; however, do not use 2-blade power cord.
- Verify if the voltage is stable, grounded properly and there is no electricity leakage.
- Measure total power consumption which should not higher the safety capacity and avoid safety issue and short circuit.
- Turn on Altitude Mode when located in high altitude areas
- The projector can only be installed upright or inverted.
- When installation the bracket, make sure the weight limit is not exceed and firmly secured.
- Avoid installing near air conditioner duct or subwoofer.
- Avoid installing at high temperature, insufficient cooling and heavy dust locations.
- Keep your product away from fluorescent lamps to avoid malfunction caused by IR interference
- The VGA IN connector should be connected to the VGA IN port. Note that it should be inserted tightly, with the screws on both sides securely fastened to ensure proper connection of the signal wire for achieving optimal display effect.
- The AUDIO IN connector should be connected to the AUDIO IN port and CANNOT be connected to AUDIO OUT or other ports like BNC, RCA; otherwise, it will lead to mute output and even DAMAGE the port.
- Install the projector above 200cm to avoid damage.
- The power cord and signal cable should be connected before power on the projector. During the projector starting and operating process, DO NOT insert or remove the signal cable or the power cord to avoid damaging the projector.

Cooling notes

Air outlet

- Make sure the air outlet is 50cm clear of any obstruction to ensure proper cooling.
- Air outlet location should not be in front of the lens of other projector to avoid causing illusions.
- Keep the outlet at least 100cm away from the inlets of other projectors
- The projector generates a massive amount of heat during use. The internal fan dissipates the heat of the projector when shutting down, and such process may continue for a certain period. After the project enters STANDBY MODE status, press the AC power button to turn off the projector and remove the power cord. DO NOT remove the power cord during the shutdown process, as it may cause damage to the projector. In the meantime, the delayed heat radiating will also affect the service life of the projector. The shutdown process may vary depending on the model used. Whatever the case may be, be sure to disconnect the power cord till after the projector enters the STANDBY status.

Air inlet

- Make sure there is no object blocking air input within 30 cm.
- Keep the inlet away from other heat sources
- Avoided heavy dust area

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 36 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.

**Caution:**

In rare cases the lamp bulb may burn out during normal operation and cause glass dust or shards to be discharged outward from the rear exhaust vent.

Do not inhale or do not touch glass dust or shards. Doing so could result in injury.

Always keep your face away from the exhaust vent so that you do not suffer from the gas and broken shards of the lamp.

Cleaning the Projector

- Unplug the power cord before cleaning. See [Cleaning the Projector](#) page 40.
- 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:



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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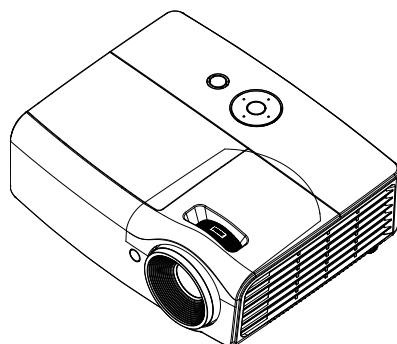
APPENDIX I53

 RS-232C PROTOCOL53

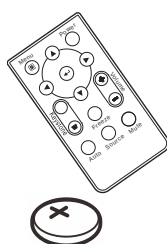
GETTING STARTED

Packing Checklist

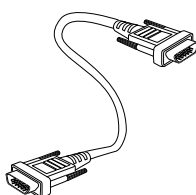
Carefully unpack the projector and check that the following items are included:



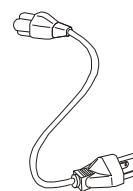
DLP PROJECTOR



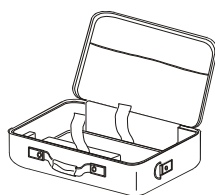
*REMOTE CONTROL
(WITH ONE 3V CR2025 BATTERY)*



RGB CABLE



POWER CORD



*CARRYING CASE
(OPTIONAL)*



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



QUICK START GUIDE



WARRANTY CARD

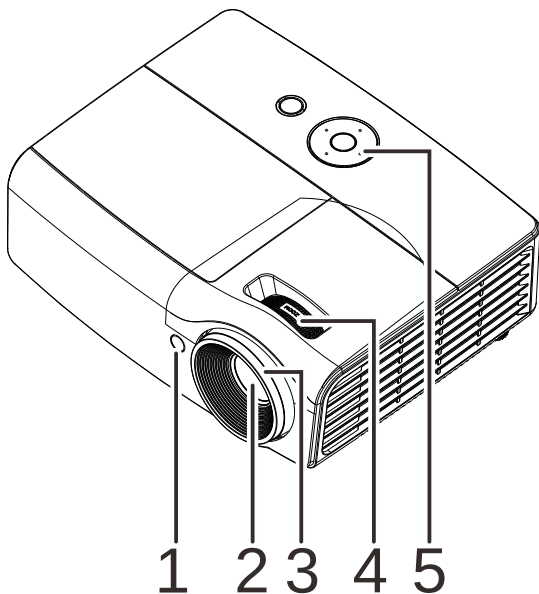
Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work. It is recommended that you keep the original packing material should you ever need to return the equipment for warranty service.



Caution:
Avoid using the projector in dusty environments.

Views of Projector Parts

Front-right View



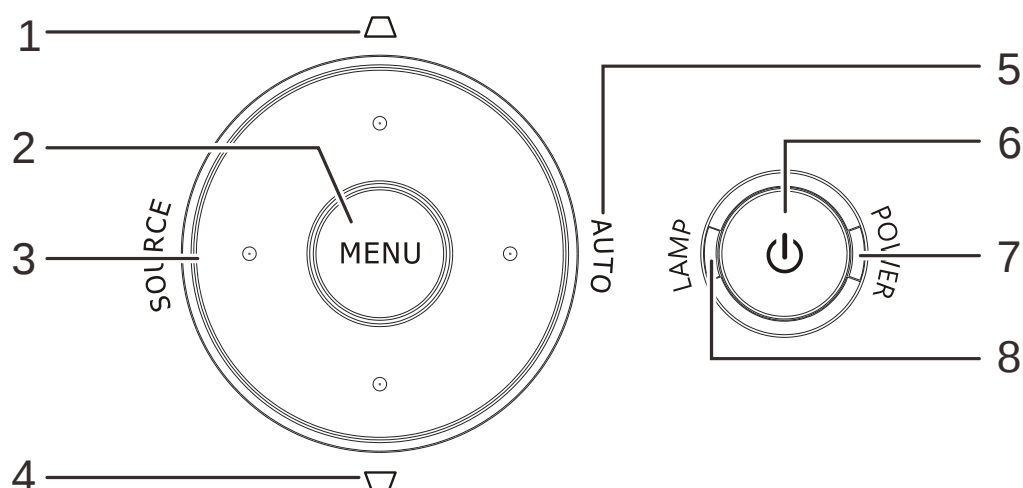
ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	IR receiver	Receive IR signal from remote control	
2.	Lens	Projection Lens	
3.	Focus ring	Focuses the projected image	14
4.	Zoom ring	Enlarges the projected image	
5.	Function keys	See Top view—On-screen Display (OSD) buttons and LEDs.	3



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



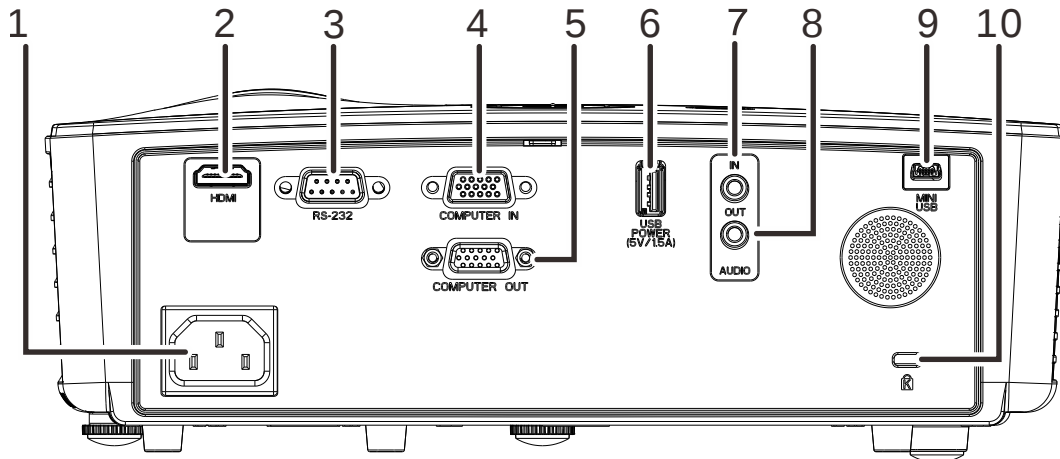
ITEM	LABEL	DESCRIPTION		SEE PAGE
1.	Keystone ▢	Navigates and changes settings in the OSD Quick Menu – For Keystone		15
2.	MENU	Opens and exits OSD menus		
3.	SOURCE	Navigates and changes settings in the OSD Enter the Source menu		
4.	Keystone ▣	Navigates and changes settings in the OSD Quick Menu – For Keystone		
5.	AUTO	Navigates and changes settings in the OSD Optimizes image size, position, and resolution		
6.	⏻ (Power button)	Turns the projector On or Off.		
7.	POWER LED	Solid Blue	Power On , Standby, Lamp Lit	43
		Flashing Blue	System Initialized / Cooling / Error code	
8.	LAMP LED	Solid Red	Lamp Fail.	
		Flashing Red	Error code	

Rear view

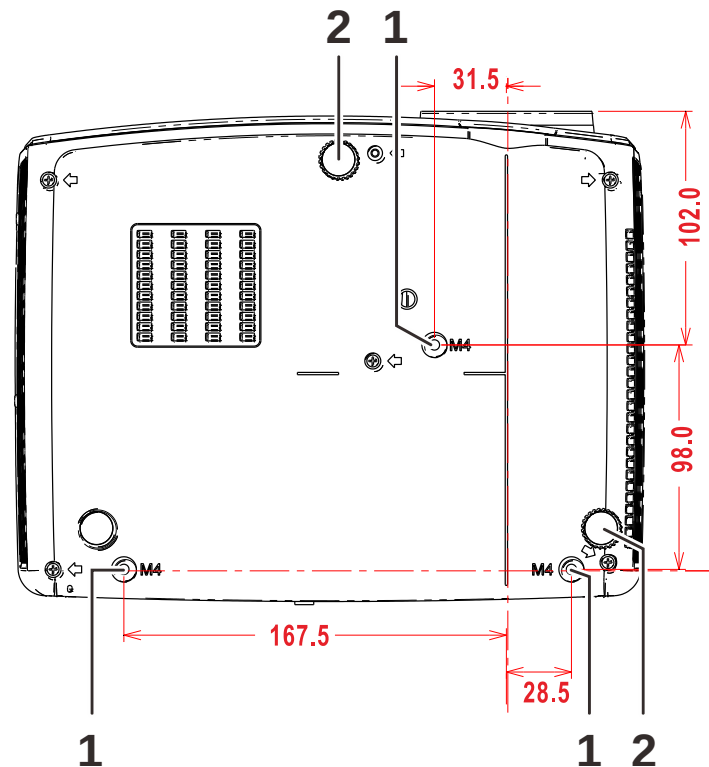


Warning:

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



ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	AC IN	Connect the POWER cable	9
2.	HDMI	Connect the HDMI cable from a HDMI device Connect the MHL cable from a MHL-compatible device. Note: For some MHL compatible devices, whose output is not thru micro-USB, an extra cable adaptor may be required.	
3.	RS-232C	Connect RS-232 serial port cable for remote control	
4.	COMPUTER IN	Connect the RGB cable from a computer	
5.	COMPUTER OUT	Connect the RGB cable to a display	
6.	USB POWER (5V/1.5A)	For USB charge support DC 5V	
7.	AUDIO IN	Connect an AUDIO cable from the audio device	
8.	AUDIO OUT	Connect an AUDIO cable to audio amplifier	
9.	MINI USB	Connect the USB cable from a computer (For service only)	
10.	Kensington Security Slot	Secure to permanent object with a Kensington Lock system	41

Bottom view

ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	Ceiling support holes	Contact your dealer for information on mounting the projector on a ceiling	
2.	Tilt adjustor	Rotate adjuster lever to adjust angle position.	13

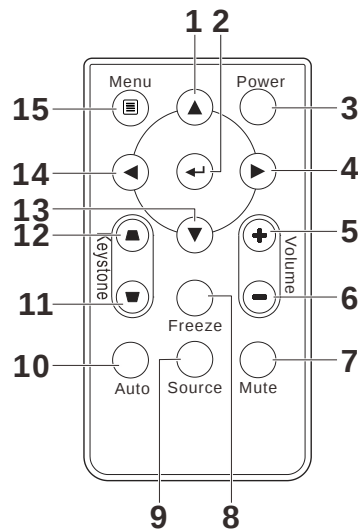
Note:

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 (0.24 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.

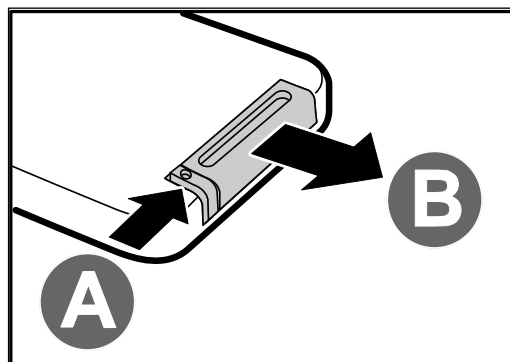
Remote Control Parts



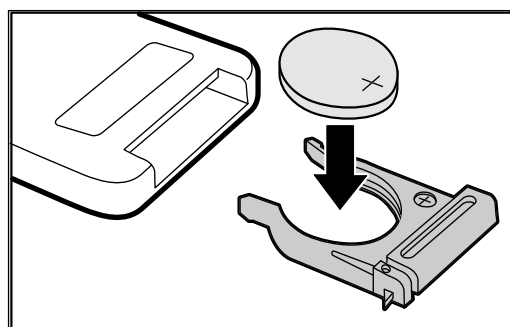
ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	Up cursor	Navigates and changes settings in the OSD	15
2.	Enter	Changes settings in the OSD	
3.	Power	Turns the projector On or Off	9
4.	Right cursor	Navigates and changes settings in the OSD	15
5.	Volume +	Increase volume	14
6.	Volume -	Decrease volume	
7.	Mute	Audio mute Note : Available in different model	
8.	Freeze	Freeze/unfreezes the on-screen picture	
9.	Source	Detects the input device	
10.	Auto	Auto adjustment for frequency, tracking, size, position (RGB only)	
11.	Keystone top	Corrects image-trapezoid (wider top) effect	14
12.	Keystone bottom	Corrects image trapezoid (wider bottom) effect	
13.	Down cursor	Navigates and changes settings in the OSD	15
14.	Left cursor	Navigates and changes settings in the OSD	
15.	Menu	Opens the OSD	

Inserting the Remote Control Batteries

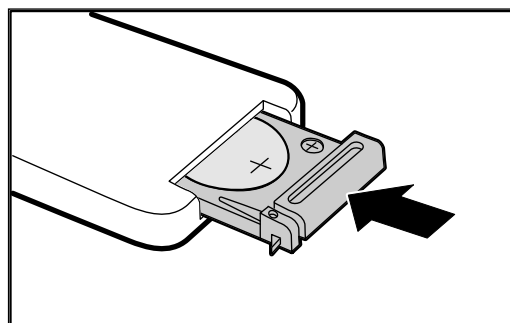
1. Remove the battery compartment cover by sliding the cover in the direction of the arrow **(A)**. Pull out the cover **(B)**.



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 batteries when not using the projector for prolonged periods.



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.*

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

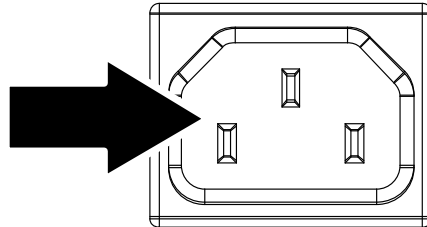
The projector can be operated using the remote control or the buttons on the top of the projector. All operations can be carried out with the remote control; however, the buttons on the projector are limited in use.

SETUP AND OPERATION

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.

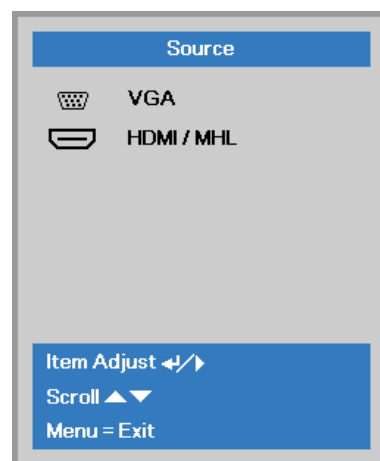
3. Ensure the POWER LED not a flashing. Then press the  **POWER** button to turn on the projector.

The projector splash screen displays and connected devices are detected.

See [Setting an Access Password \(Security Lock\)](#) on page 11 if security lock is enabled.

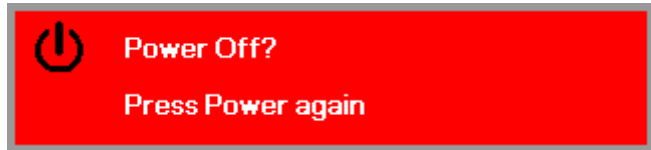


4. If more than one input device is connected, press the **SOURCE** button and use   to scroll among devices.
(Component is supported through the RGB to COMPONENT ADAPTER.)



- VGA: Analog RGB
- HDMI/MHL: High-Definition Multimedia Interface and Mobile High-Definition Link compatible

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



Caution:

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

Setting an Access Password (Security Lock)

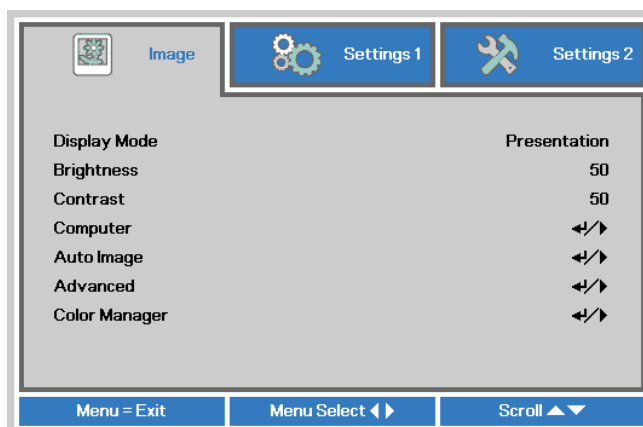
You can use the four (arrow) buttons to set a password and prevent unauthorized use of the projector. When enabled, the password must be entered after you power on the projector. (See [Navigating the OSD](#) on page 15 and [Setting the OSD Language](#) on page 16 for help on using OSD menus.)



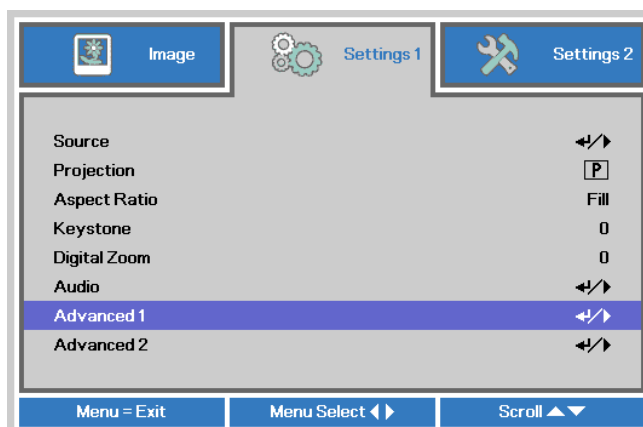
Important:

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 **Settings 1** menu, press the cursor **<>** button to select **Advanced 1**.



3. Press **<** (Enter) / **>** to enter the **Advanced 1** sub menu. Press the cursor **<>** button to select **Security Lock**.

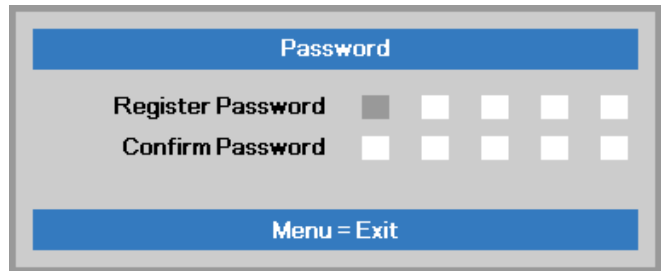
4. Press the cursor **<>** button to enter and enable or disable security lock function.

A password dialog box automatically appears.

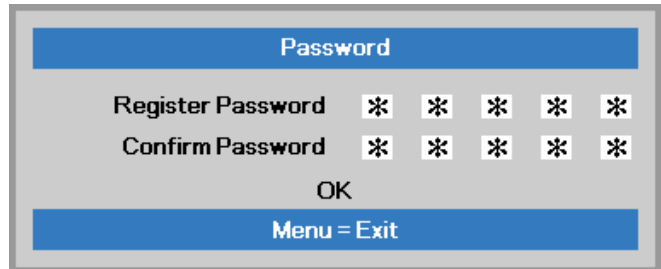


5. You can use the cursor buttons
▲▼◀▶
either on keypad or IR remote control
for password entry. You can use any
combination including the same arrow
five times, but not less than five.

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

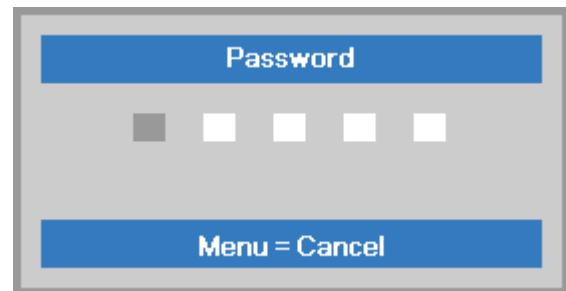


A dialog box titled "Password" with a blue header bar. It contains two rows of input fields: "Register Password" and "Confirm Password". Each row has five white square boxes for digits. The first box in the "Register Password" row is filled with a gray square. Below the input fields is a blue bar with the text "Menu = Exit".



A dialog box titled "Password" with a blue header bar. It contains two rows of input fields: "Register Password" and "Confirm Password". Each row has five white square boxes, all of which are filled with an asterisk (*). Below the input fields is the text "OK" and a blue bar with the text "Menu = Exit".

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.
The service center will validate the
owner and help reset the password.

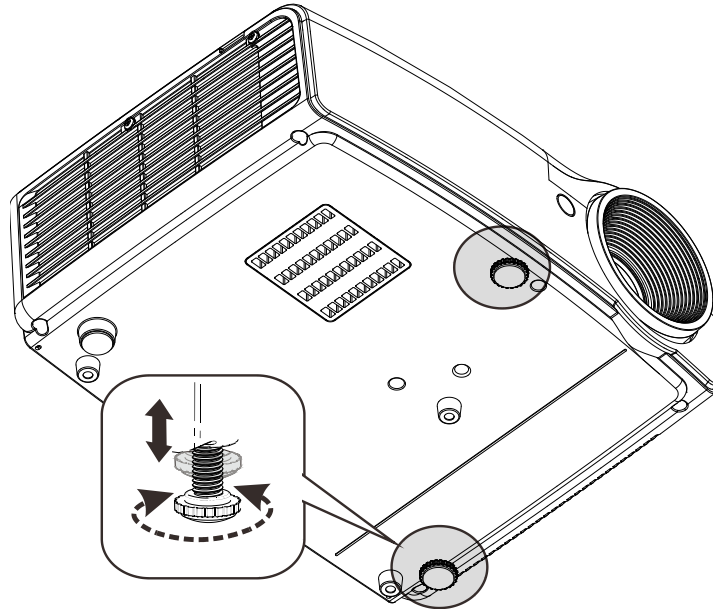


A dialog box titled "Password" with a blue header bar. It contains a single row of five white square boxes for digits. The first box is filled with a gray square. Below the input fields is a blue bar with the text "Menu = Cancel".

Adjusting the Projector Level

Take note of the following when setting up the projector:

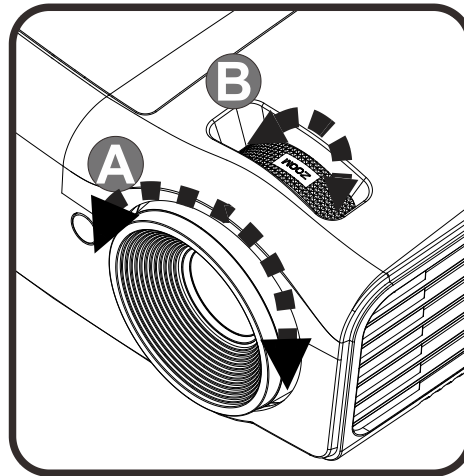
- *The projector table or stand should be level and sturdy.*
- *Position the projector so that it is perpendicular to the screen.*
- *Ensure the cables are in a safe location. You could trip over them.*



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

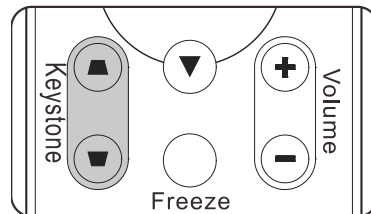
Adjusting the Zoom, Focus and Keystone

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 the remote control to correct image-trapezoid (wider top or bottom) effect.

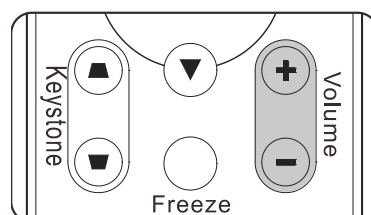


4. The keystone control appears on the display.



Adjusting the Volume

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



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



Note : Available in different model

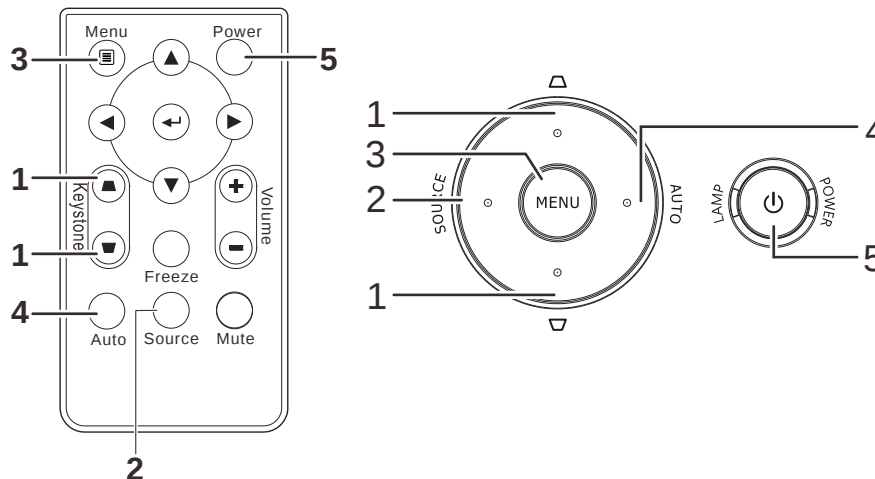
ON-SCREEN DISPLAY (OSD) MENU SETTINGS

OSD Menu Controls

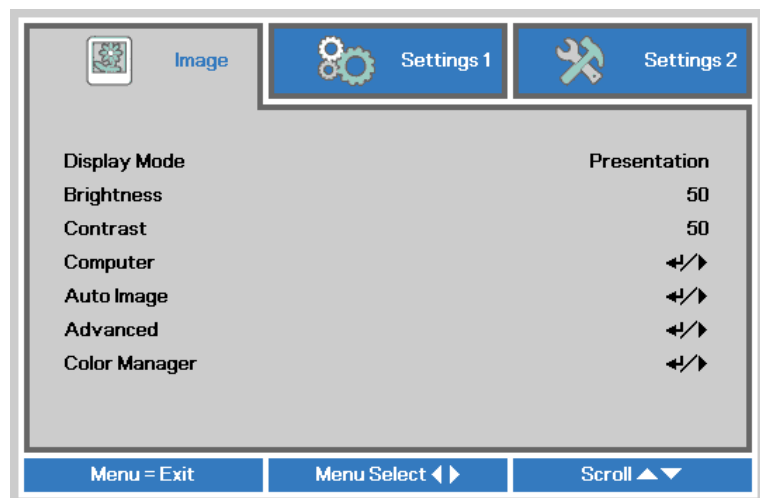
The projector has an OSD that lets you make image adjustments and change various settings.

Navigating the OSD

You can use the remote control cursor buttons to navigate and make changes to the OSD.



1. To enter the OSD, press the **MENU** button.
2. There are three 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.



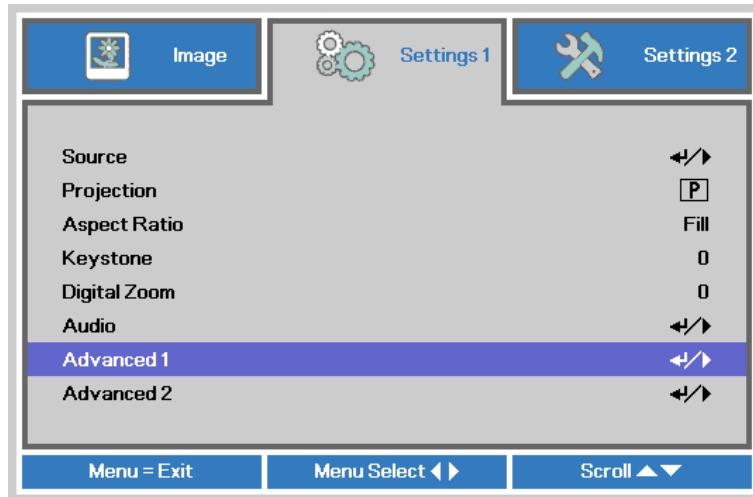
Note:

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 **Settings 1**. Press the cursor ▲▼ button to move to the **Advanced 1** menu.



2. Press ◀ (Enter) / ▶ to enter the **Advanced 1** sub menu. 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 four times to close the OSD.

OSD Menu Overview

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

MAIN MENU	SUB MENU	SETTINGS
Image	Display Mode	Presentation, Bright, Game, Movie, TV, sRGB, Blackboard, User
	Brightness	0~100
	Contrast	0~100
	Computer	Horizontal Position
		Vertical Position
		Frequency
		Tracking
	Auto Image	
	Advanced	Brilliant Color
		Sharpness
		Gamma
		Color Temperature
		Video AGC
		Video Saturation
		Video Tint
		White Balance
		RGain
		GGain
		BGain
		ROffset
		GOffset
		BOffset
	Color Manager	Red
		Green
		Blue
		Cyan
		Magenta
		Yellow
		White

MAIN MENU	SUB MENU	SETTINGS
Settings 1	Source	reference Input Source Select (IR/Keypad)
	Projection	Normal, Real, Ceiling, Real+Ceiling
	Aspect Ratio	Fill, 4:3, 16:9, Letter Box, Native, 2.35:1
	Keystone	-40~40
	Digital Zoom	-10~10
	Audio	Volume
		0~10
		Mute
		Off, On
	Advanced 1	Language
		English, Français, Deutsch, Español, Português, 简体中文, 繁體中文, Italiano, Norsk, Svenska, Nederlands, Русский, Polski, Suomi, Ελληνικά, 한국어, Magyar, Čeština, العربية, Türkçe, Việt, 日本語, ไทย, עברית, فارسی
		Security Lock
		Off, On
		Blank Screen
		Blank, Red, Green, Blue, White
		Splash Logo
		On., Off
		Closed Captioning
		Off, On
		KeypadLock
		Off, On
	3D Setting	3D
		Off, DLP-Link, IR
		3D Sync Invert
		Off, On
		3D Format
		Frame Sequential, Top/Bottom, Side-By-Side, Frame Packing (3D Frame Packing HDMI source only)
	Advanced 2	Test Pattern
		None, Grid, White, Red, Green, Blue, Black
		H Image Shift
		-50~50
		V Image Shift
		-50~50

MAIN MENU	SUB MENU	SETTINGS
Settings 2	Auto Source	Off, On
	No Signal Power Off (min)	0~180
	Auto Power On	Off, On
	Lamp Mode	ECO, Normal, Dynamic Eco
	Reset All	
	Status	Active Source
		Video Information
		Lamp Hours(ECO, Normal)
		Software Version
	Advanced 1	Menu Position
		Translucent Menu
		Low Power Mode
		Fan Speed
		Lamp Hour Reset
		Projector ID
	Advanced 2	Sleep Timer (min)
		Source Filter
		VGA
		HDMI/MHL
		Wall Color
		Color Space
		Quantization Range

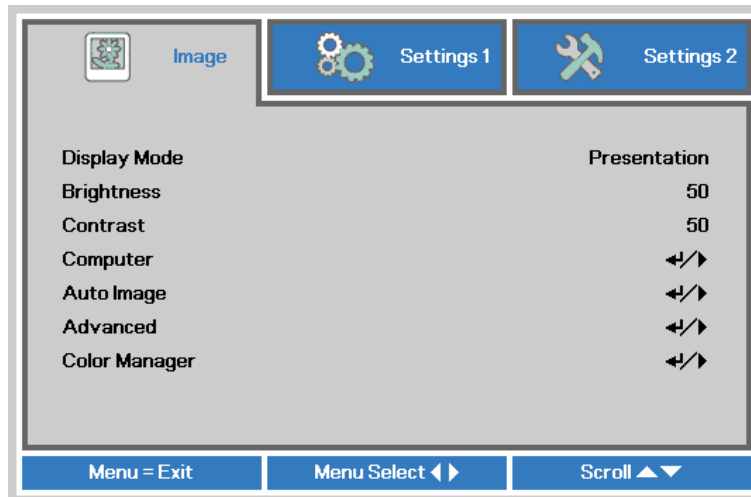
Image Menu



Attention !

All of display mode parameters when changed will be saved to user mode.

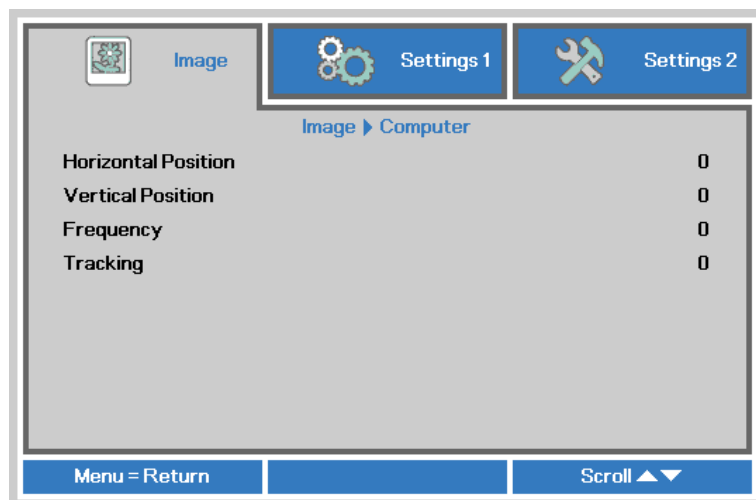
Press the **MENU** button to open the **OSD** menu. Press the cursor ◀▶ button to move to the **Image Menu**. Press the cursor ▲▼ button to move up and down in the **Image** menu. Press ◀▶ to enter and change values for settings.



ITEM	DESCRIPTION
Display Mode	Press the cursor ◀▶ button to enter and set the Display Mode.
Brightness	Press the cursor ◀▶ button to enter and adjust the display brightness.
Contrast	Press the cursor ◀▶ button to enter and adjust the display contrast.
Computer	Press (Enter) / ▶ to enter the Computer menu. See Computer Menu on page 21.
Auto Image	Press (Enter) / ▶ to automatically adjustment for phase, tracking, size and position.
Advanced	Press ◀ (Enter) / ▶ to enter the Advanced menu. See Advanced Feature on page 22.
Color Manager	Press (Enter) / ▶ to enter the color manager menu. See page 24 for more information on Color Manager

Computer Menu

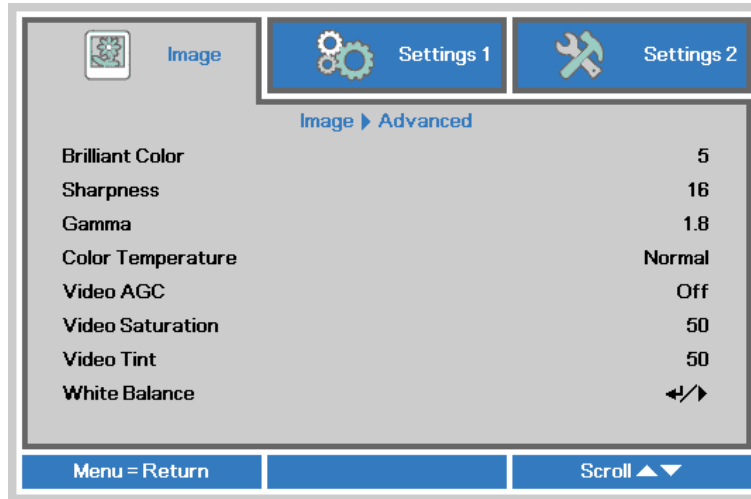
Press the **MENU** button to open the **OSD** menu. Press ◀▶ to move to the **Image** menu. Press ▲▼ to move to the **Computer** menu and then press **Enter** or ▶. Press ▲▼ to move up and down in the **Computer** menu.



ITEM	DESCRIPTION
Horizontal Position	Press the cursor ◀▶ button to enter and adjust the display position to left or right.
Vertical Position	Press the cursor ◀▶ button to enter and adjust the display position to up or down.
Frequency	Press the cursor ◀▶ button to enter and adjust the A/D sampling clock.
Tracking	Press the cursor ◀▶ button to enter and adjust the A/D sampling dot.

Advanced Feature

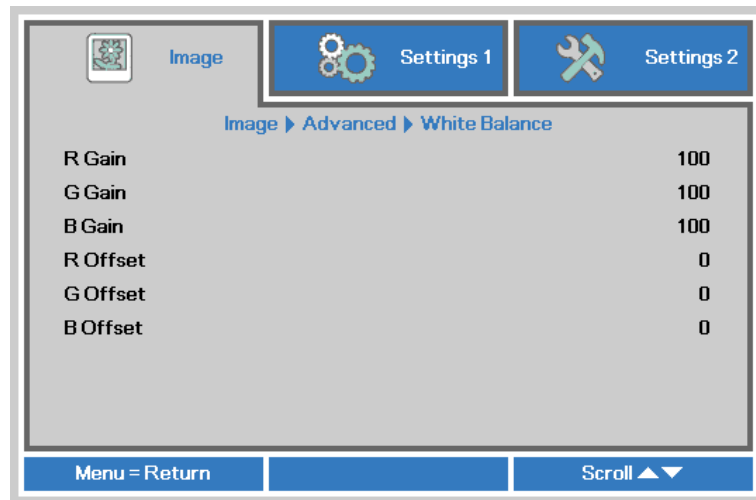
Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Image** menu. Press ▼▲ to move to the **Advanced** menu and then press **Enter** or ▶. Press ▼▲ to move up and down in the **Advanced** menu.



ITEM	DESCRIPTION
Brilliant Color	Press the cursor ◀▶ button to enter and adjust the Brilliant Color value.
Sharpness	Press the cursor ◀▶ button to enter and adjust the display Sharpness.
Gamma	Press the cursor ◀▶ button to enter and adjust the gamma correction of the display.
Color Temperature	Press the cursor ◀▶ button to enter and adjust the color temperature.
Video AGC	Press the ◀▶ buttons to enter and enable or disable the Automatic Gain Control for video source.
Video Saturation	Press the ◀▶ buttons to enter and adjust the video saturation.
Video Tint	Press the ◀▶ buttons to enter and adjust the video tint/hue.
White Balance	Press the ENTER / ▶ button to enter the White Balance sub menu. See White Balance on page 23

White Balance

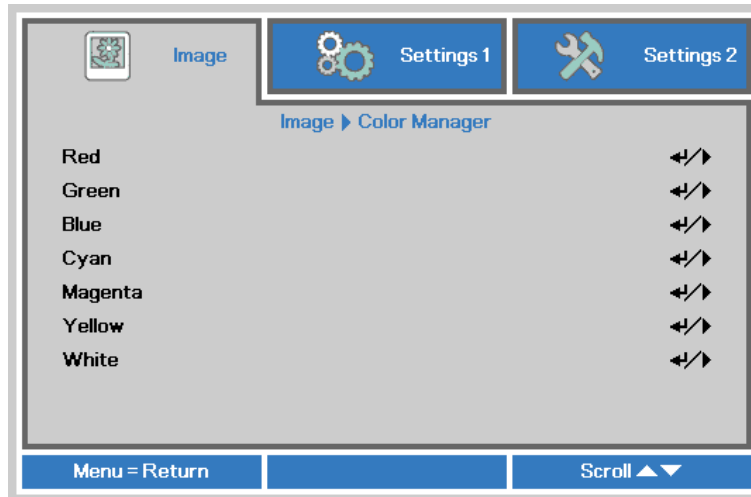
Press the **ENTER** button to enter the **White Balance** sub menu.



ITEM	DESCRIPTION
R Gain	Press the ◀▶ buttons to adjust the Red Gain.
G Gain	Press the ◀▶ buttons to adjust the Green Gain.
B Gain	Press the ◀▶ buttons to adjust the Blue Gain.
R Offset	Press the ◀▶ buttons to adjust the Red Offset.
G Offset	Press the ◀▶ buttons to adjust the Green Offset.
B Offset	Press the ◀▶ buttons to adjust the Blue Offset.

Color Manager

Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Image** menu. Press ▼▲ to move to the **Color Manager** menu and then press **Enter** or ▶. Press ▼▲ to move up and down in the **Color Manager** 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.

Settings 1 Menu

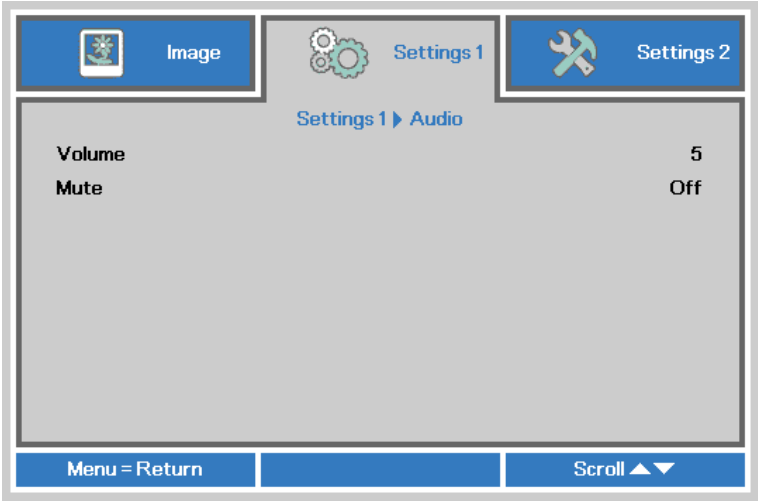
Press the **MENU** button to open the **OSD** menu. Press the cursor ◀▶ button to move to the **Settings 1** menu. Press the cursor ▲▼ button to move up and down in the **Settings 1** menu. Press ◀▶ to enter and change values for settings.



ITEM	DESCRIPTION
Source	Press the cursor ◀▶ button to enter the Source menu. Reference input Source select (IR / Keypad).
Projection	Press the cursor ◀▶ button to enter and choose from four projection methods:
Aspect Ratio	Press the cursor ◀▶ button to enter and adjust the video aspect ratio.
Keystone	Press the cursor ◀▶ button to enter and adjust the display keystone.
Digital Zoom	Press the cursor ◀▶ button to enter and adjust the Digital Zoom menu.
Audio	Press ◀ (Enter) / ▶ to enter the Audio menu. See Audio on page 26.
Advanced 1	Press ◀ (Enter) / ▶ to enter the Advanced 1 menu. See Advanced 1 Feature on page 27.
Advanced 2	Press ◀ (Enter) / ▶ to enter the Advanced 2 menu. See Advanced 2 Feature on page 29.

Audio

Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Settings 1** menu. Press ▼▲ to move to the **Audio** menu and then press **Enter** or ▶. Press ▼▲ to move up and down in the **Audio** menu.



ITEM	DESCRIPTION
Volume	Press the ◀▶ buttons to enter and adjust the audio volume.
Mute	Press the ◀▶ buttons to enter and turn on or off the speaker.

Advanced 1 Feature

Press the **Menu** button to open the **OSD** menu. Press **◀▶** to move to the **Settings 1** menu. Press **▲▼** to move to the **Advanced 1** menu and then press **Enter** or **▶**. Press **▲▼** to move up and down in the **Advanced 1** menu. Press **◀▶** to enter and change values for setting.

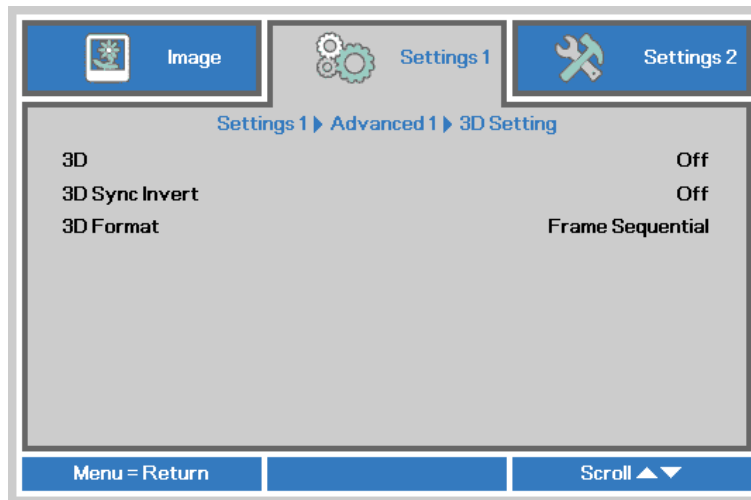


ITEM	DESCRIPTION
Language	Press the cursor ◀▶ button to enter and select a different localization Menu.
Security Lock	Press the cursor ◀▶ button to enter and enable or disable security lock function.
Blank Screen	Press the cursor ◀▶ button to enter and select different color to blank the screen.
Splash Logo	Press the cursor ◀▶ button to enter and select splash logo on or off.
Closed Captioning	Press the ◀▶ buttons to enter and enable or disable Closed Captioning
Keypad Lock	Press the cursor ◀▶ button to enter and enable or disable keys can be work on keypad.
3D Setting	Press ◀Enter/ ▶ to enter the 3D menu. See page 28 for more information on 3D Setting .

Note:

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

3D Setting



ITEM	DESCRIPTION
3D	Press the cursor ◀▶ button to enter and select different 3D mode.
3D Sync Invert	Press the cursor ◀▶ button to enter and enable or disable 3D Sync Invert.
3D Format	Press the cursor ◀▶ button to enter and enable or disable different 3D Format.

Note:

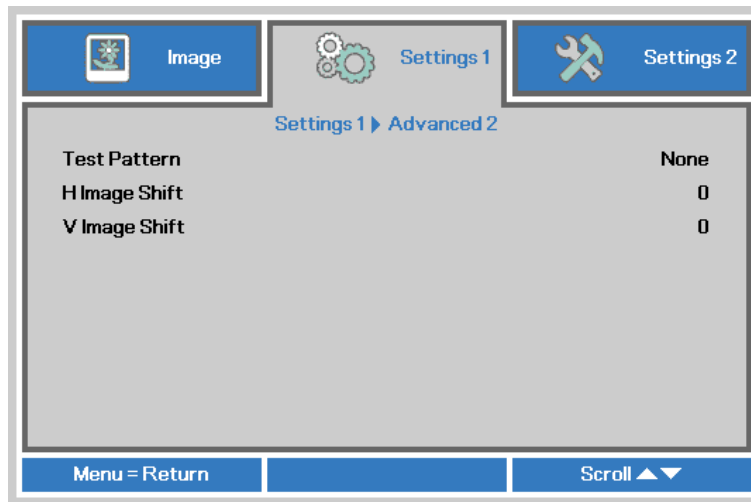
1. The 3D OSD menu item is gray if there is no appropriate 3D source. This is the default setting.
2. When the projector is connected to an appropriate 3D source, the 3D OSD menu item is enabled for selection.
3. Use 3D glasses to view a 3D image.
4. You need 3D content from a 3D DVD or 3D media file.
5. You need to enable the 3D source (some 3D DVD content may have a 3D on-off selection feature).
6. You need DLP link 3D or IR 3D shutter glasses. With IR 3D shutter glasses, you need to install a driver on your PC and connect a USB emitter.
7. The 3D mode of the OSD needs to match the type of glasses (DLP link or IR 3D).
8. Power on the glasses. Glasses normally have a power on -off switch. Each type of glasses has their own configuration instructions. Please follow the configuration instructions that come with your glasses to finish the setup process.

Note:

Since different types of glass (DLP link or IR shutter glass) have their own setting instructions, Please follow the guide to finish the setup process.

Advanced 2 Feature

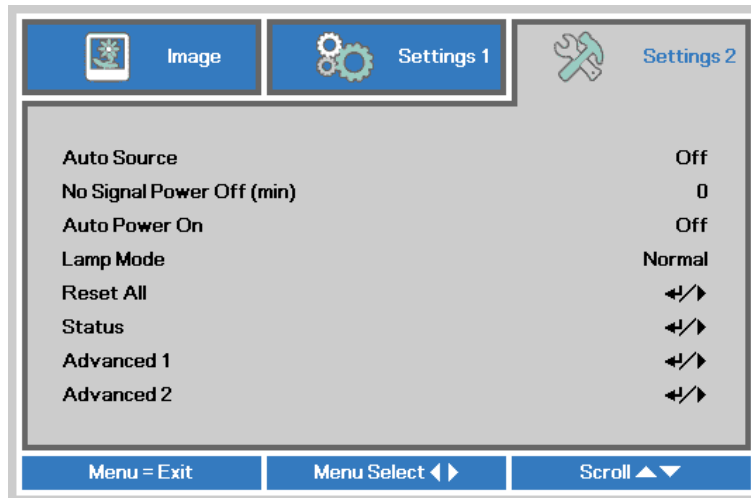
Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Settings 1** menu. Press ▲▼ to move to the **Advanced 2** menu and then press **Enter** or ▶. Press ▲▼ to move up and down in the **Advanced 2** menu. Press ◀▶ to enter and change values for setting.



ITEM	DESCRIPTION
Test Pattern	Press the cursor ◀▶ button to enter and select internal test pattern.
H Image Shift	Press the cursor ◀▶ button to enter and select H Image Shift.
V Image Shift	Press the cursor ◀▶ button to enter and select V Image Shift.

Settings 2 Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor ◀▶ button to move to the **Settings 2** menu. Press the cursor ▲▼ button to move up and down in the **Settings 2** menu.



ITEM	DESCRIPTION
Auto Source	Press the cursor ◀▶ button to enter and enable or disable automatic source detection.
No Singal Power Off (min.)	Press the cursor ◀▶ button to enter and enable or disable automatic shutdown of lamp when no signal.
Auto Power On	Press the cursor ◀▶ button to enter and enable or disable automatic power On when AC power is supplied.
Lamp Mode	Press the cursor ◀▶ button to enter and select the lamp mode for higher brightness or lower brightness to save lamp life.
Reset All	Press ◀ (Enter) / ▶ to reset all settings to default values.
Status	Press ◀ (Enter) / ▶ to enter the Status menu. See page 31 for more information on Status .
Advanced 1	Press ◀ (Enter) / ▶ to enter the Advanced 1 menu. See Advanced 1 Feature on page 32.
Advanced 2	Press ◀ (Enter) / ▶ to enter the Advanced 2 menu. See Advanced 2 Feature on page 34.

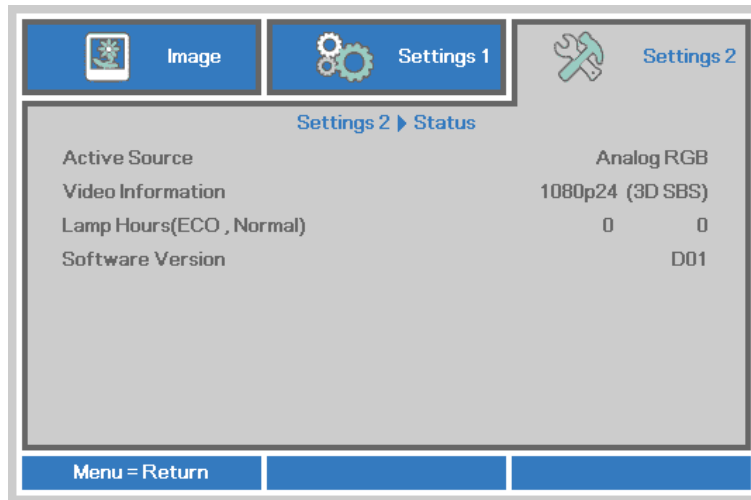
Note :

Dynamic ECO: Auto power consumption saving according to your dynamic content (30% Max saving on blank screen).

Extreme Dimming: Saving 50% lamp power consumption by blank screen (press BLANK button)

Status

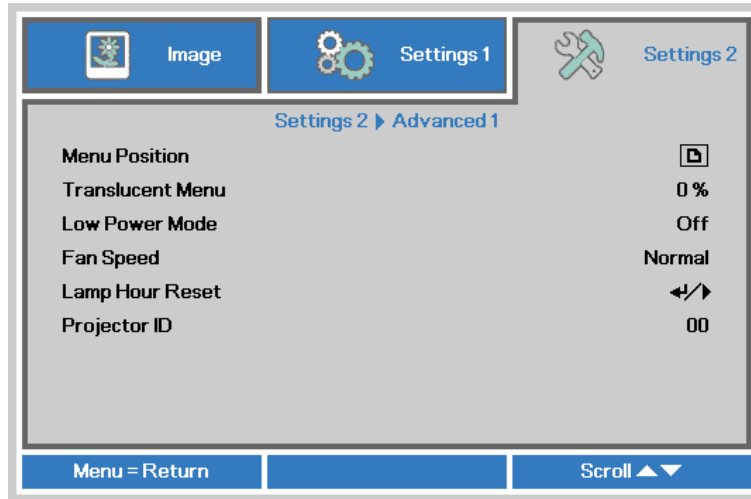
Press the cursor ▲▼ button to move up and down in the **Settings 2** menu. Select the **Status** menu and press **Enter** or ► to enter.



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)
Software Version	Showing system software version.

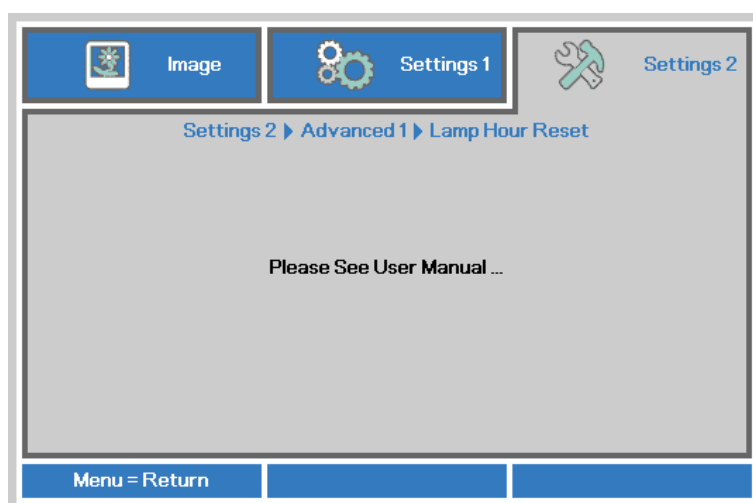
Advanced 1 Feature

Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Settings 2** menu. Press ▲▼ to move to the **Advanced 1** menu and then press **Enter** or ▶. Press ▲▼ to move up and down in the **Advanced 1** menu. Press ◀▶ to enter and change values for setting.



ITEM	DESCRIPTION
Menu Position	Press ◀▶ button to enter and select different OSD location.
Translucent Menu	Press ◀▶ button to enter and select OSD background translucent level.
Low Power Mode	Press ◀▶ to enter and turn Low Power Mode on or off.
Fan Speed	Press the cursor ◀▶ button to enter and toggle between Normal and High fan speeds. Note: We recommend selecting high speed in high temperatures, high humidity, or high altitude (higher than 1500m/4921ft) areas.
Lamp Hour Reset	After replacing the lamp, this item should be reset. See page 33 for more information on Lamp Hour Reset .
Projector ID	Press the cursor ◀▶ button to enter and adjust a two digit projector ID from 0 through 98.

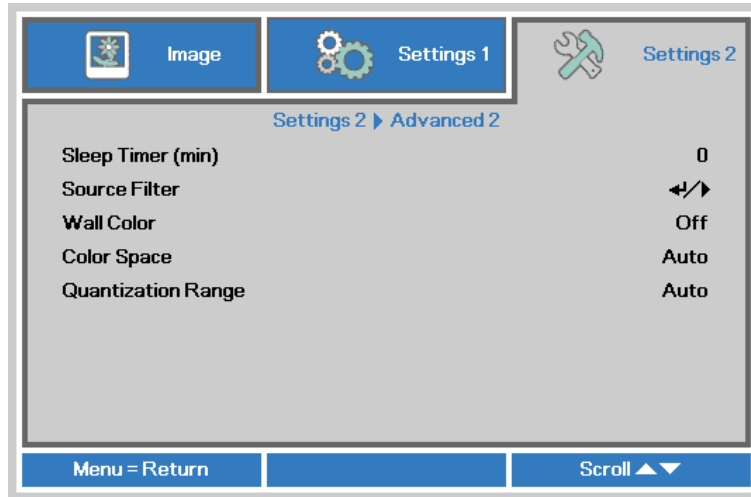
Lamp Hour Reset



Please refer to [Resetting the Lamp](#) on page 39 to reset the lamp hour counter.

Advanced 2 Feature

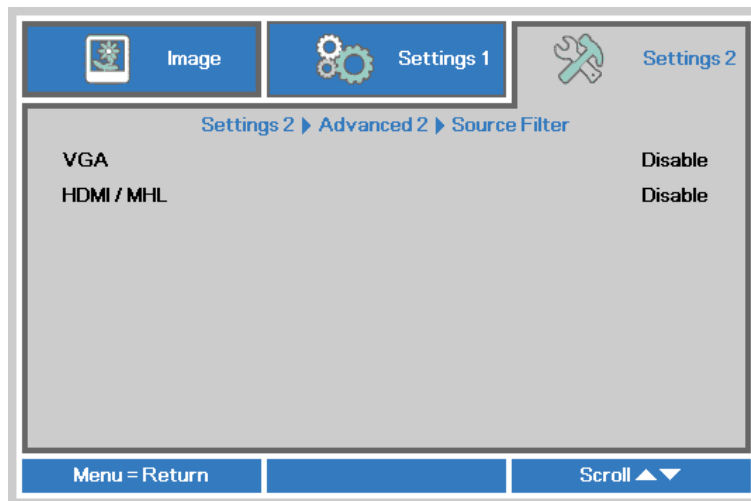
Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Settings 2** menu. Press ▲▼ to move to the **Advanced 2** menu and then press **Enter** or ▶. Press ▲▼ to move up and down in the **Advanced 2** menu. Press ◀▶ to enter and change values for setting.



ITEM	DESCRIPTION
Sleep Timer	Press the cursor ◀▶ buttons to enter and set Sleep timer. The projector automatically turns off after the preset period of time.
Source Filter	Press ◀ (Enter) / ▶ to enter the Source Filter menu. See page 35 for more information on Source Filter .
Wall Color	Press the cursor ◀▶ button to enter and set the Wall Color.
Color Space	Press the cursor ◀▶ button to enter and set the Color Space.
Quantization Range	Press the cursor ◀▶ button to enter and set the Quantization Range.

Source Filter

Press the **ENTER** button to enter the **Source Filter** sub menu.



ITEM	DESCRIPTION
VGA	Press the ◀▶ buttons to enter and enable or disable the VGA source.
HDMI/MHL	Press the cursor ◀▶ button to enter and enable or disable the HDMI/MHL-compatible source.

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.



Caution:

In rare cases the lamp bulb may burn out during normal operation and cause glass dust or shards to be discharged outward from the rear exhaust vent.

Do not inhale or do not touch glass dust or shards. Doing so could result in injury.

Always keep your face away from the exhaust vent so that you do not suffer from the gas and broken shards of the lamp.

When removing the lamp from a ceiling-mounted projector, make sure that no one is under the projector. Glass fragments could fall if the lamp has been burned out.



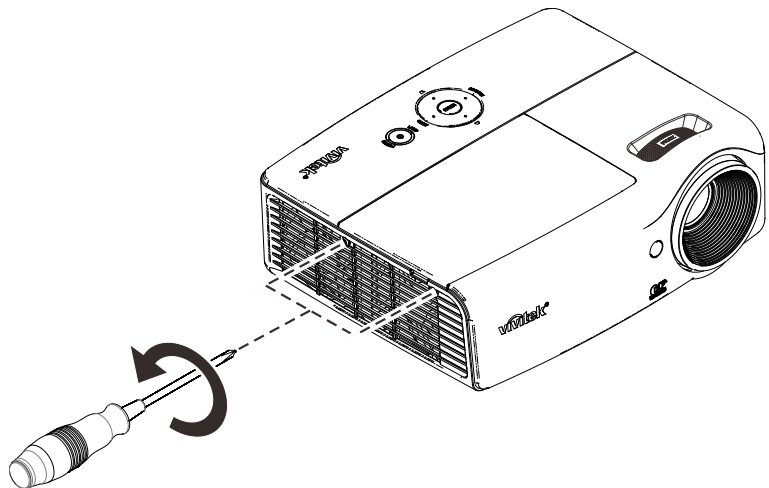
IF A LAMP EXPLODES

If a lamp explodes, the gas and broken shards may scatter inside the projector and they may come out of the exhaust vent. The gas contains toxic mercury.

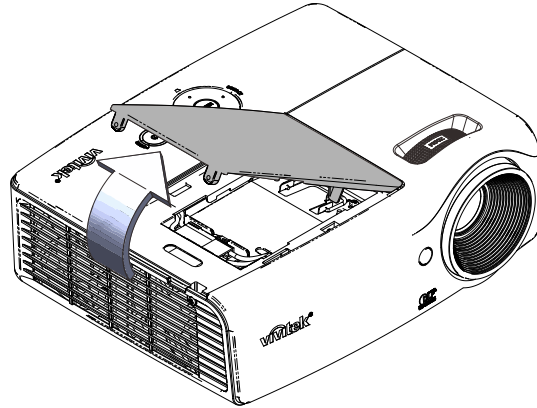
Open windows and doors for ventilation.

If you inhale the gas or the shards of the broken lamp enter your eyes or mouth, consult the doctor immediately.

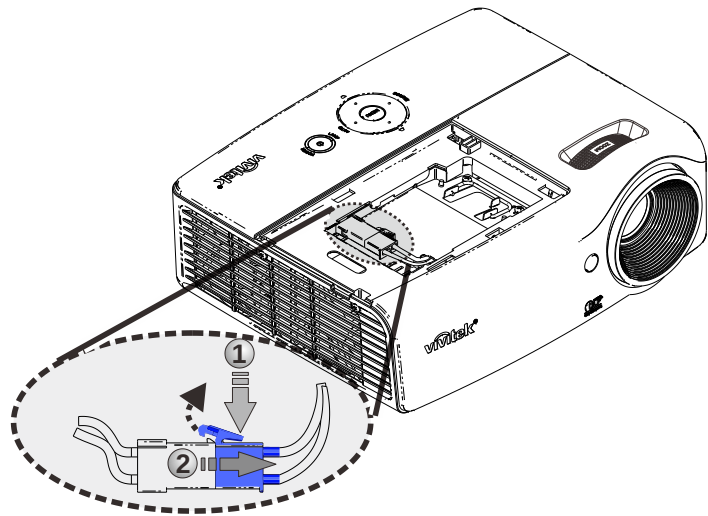
1. Loosen screws on the lamp compartment cover.



- 2.** Remove the lamp compartment cover.



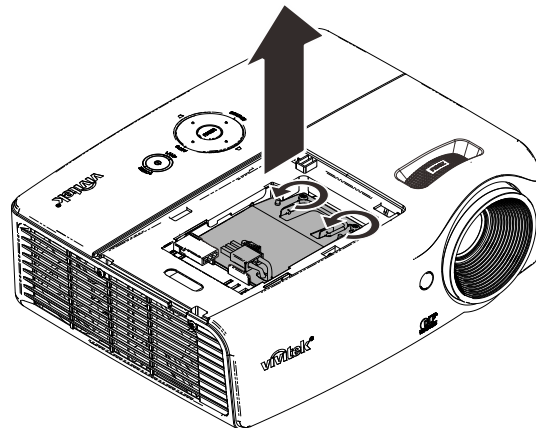
- 3.** Disconnect the lamp connector



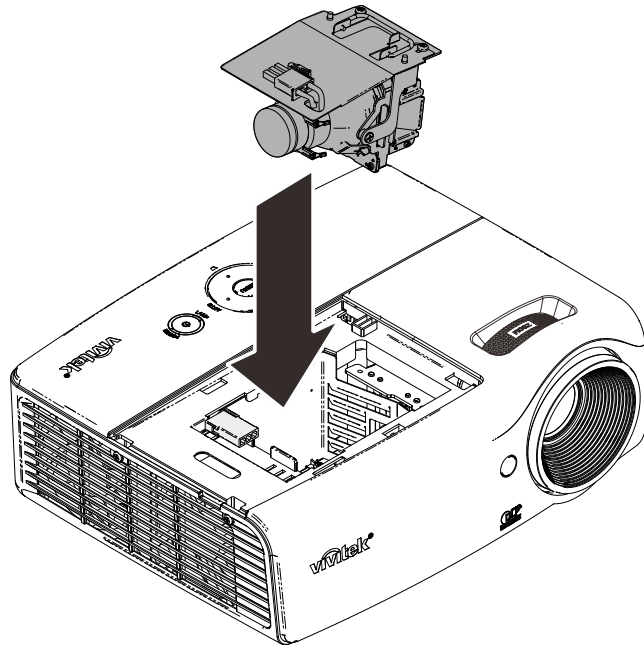
- 4.** Remove the two screws from the lamp module.

- 5.** Lift the module handle up.

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



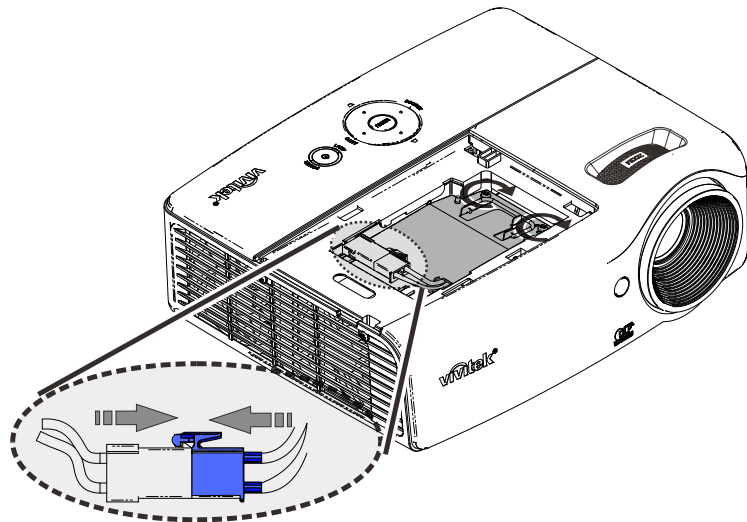
7. Reverse steps 1 to 6 to install the new lamp module. While installing, align the lamp module and ensure it is level to avoid damage.



Note:

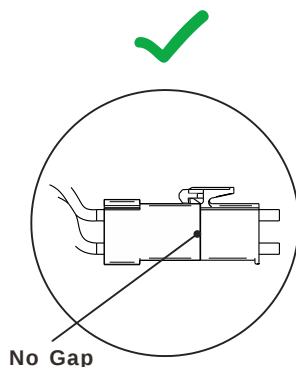
The lamp module must sit securely in place before tightening the screws.

The lamp connector must be connected properly and placed as drawing before Lamp compartment cover installation back.

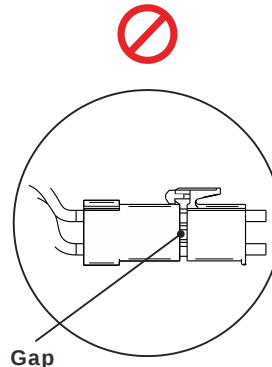


Warning:

Lamp Connector must be installed flush with the connector base as shown in the image below. A gap between the Lamp Connector and the connector base will cause damage to the projector. The following images illustrate correct and incorrect Lamp Connector installations.



Correct

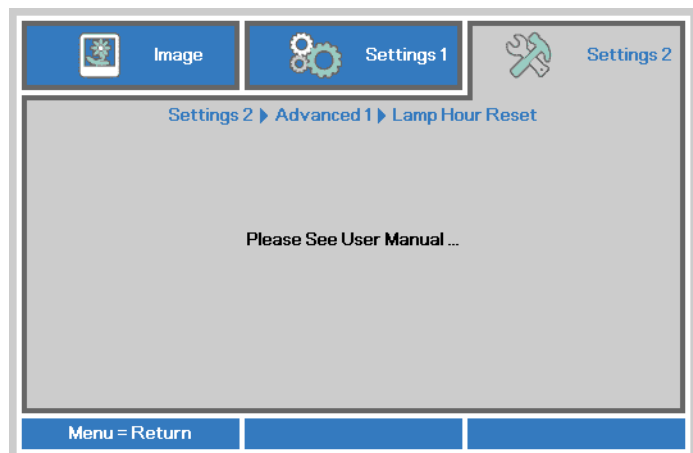
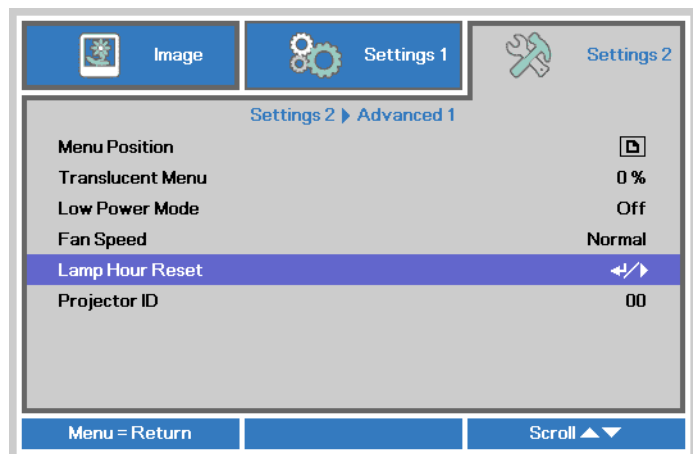
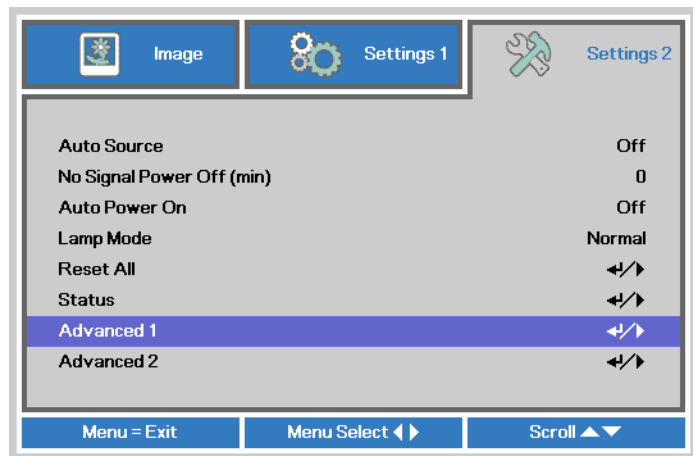


Incorrect

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 **Settings 2** menu. Press the cursor button to move down to **Advanced 1** and press enter.
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 **Settings 2**.



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.



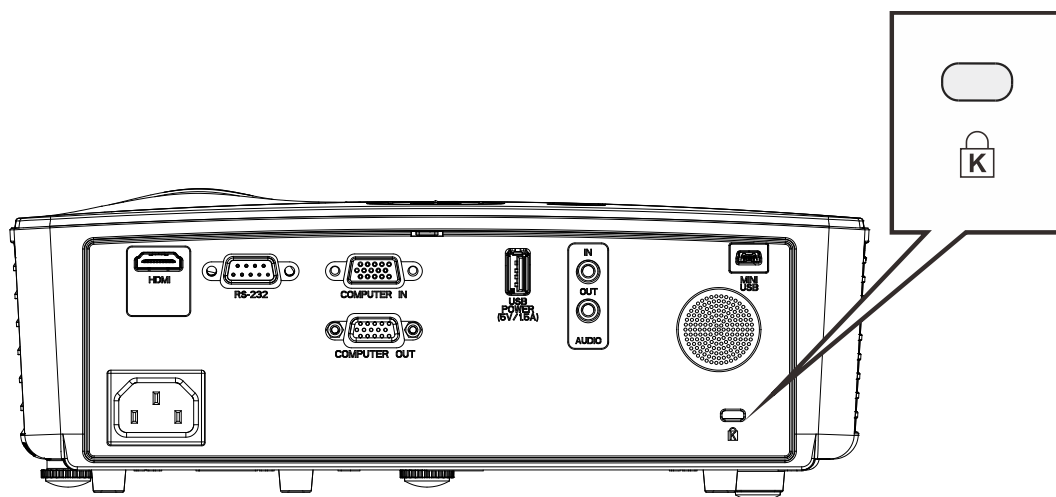
Caution:

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

Using the Kensington Security Slot

Using the Kensington Security Slot

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 BLUE	LAMP LED RED
System Initial	Flash	OFF
Ready to Power on (Standby)	ON	OFF
System Power on	Flash	OFF
Lamp Lit , System stable	ON	OFF
Cooling	Flashing	OFF
1W MCU detects scaler stops working (initial fail)	2 blinks	OFF
Over Temperature	3 blinks	OFF
Thermal Break Sensor error	4 blinks	OFF
Lamp Fail	5 blinks	0 blinks
Lamp Temperature shut down	5 blinks	1 blinks
Lamp Short circuit in output detected	5 blinks	2 blinks
Lamp End of lamp life detected	5 blinks	3 blinks
Lamp did not ignite	5 blinks	4 blinks
Lamp extinguish normal	5 blinks	5 blinks
Lamp extinguish run-up	5 blinks	6 blinks
Lamp voltage too low	5 blinks	7 blinks
Lamp ballast Fail	5 blinks	8 blinks
Lamp ballast Communication error	5 blinks	10 blinks
Lamp Fan error(FAN1)	6 blinks	1 blinks
Power Fan error(FAN2)	6 blinks	2 blinks
Blower Fan error(FAN3)	6 blinks	3 blinks
Case Open	7 blinks	OFF
DMD error	8 blinks	OFF
Color wheel error	9 blinks	OFF

In the event of an error, please disconnect the AC power cord and wait for one (1) minute before restarting the projector. If the Power or Lamp LEDs are still blinking or any other situation that isn't listed in the chart above, please 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.
3. Ensure the projector-to-screen distance is within the 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 to correct the problem.

Problem: The image is reversed

Check the **Projection** setting on the **Settings 1** menu of the OSD.

Problem: The image is streaked

1. Set the **Frequency** and **Tracking** settings on the **Image->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->Advanced** 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 on.
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 battery.
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>

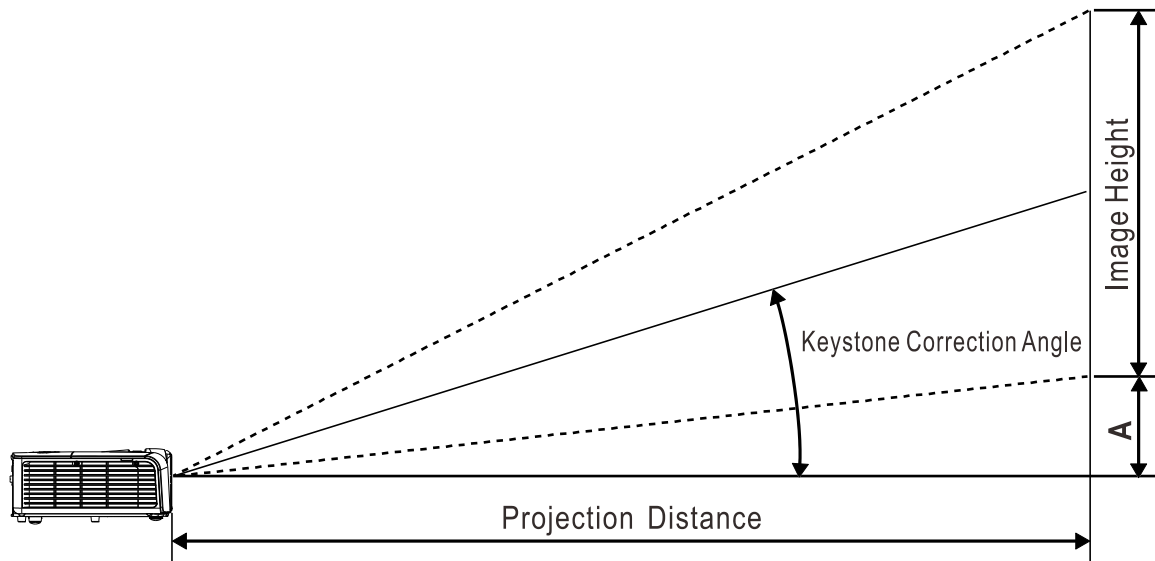
SPECIFICATIONS

Specifications

Model	DH558 / DH559
Display Type	TI DMD 0.65" S600 1080P
Resolution	1920x1080
Projection Distance	1 ~ 10 m
Projection Screen Size	31" ~ 308.8"
Projection Lens	Manual Focus/ Manual Zoom
Zoom Ratio	1.2x
Vertical Keystone Correction	+/- 40 Degree
Projection Methods	Front, Rear, Desktop/Ceiling (Rear, Front)
Data Compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA@60hz, Mac
SDTV/EDTV/ HDTV	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
Video Compatibility	NTSC, PAL, SECAM
H-Sync	15, 30~91.4KHz
V-Sync	24~30Hz, 47~120Hz
Safety Certification	FCC-B, cUL, UL, UL-AR, CE, CB, KC, NOM, CCC
Operation Temperature	5° ~ 40°C
Dimensions	274.6 mm (W) x 212 mm (D) x 100 mm (H)
Ac Input	AC Universal 100-240V
Power Consumption	240W (Normal), 200W (ECO), <0.5W (Standby)
Lamp	190W (Normal) / 160W (ECO)
Audio Speaker	2W mono speaker x 1
Input Terminals	VGA in x 1
	Mini-jack stereo x 1
	HDMI x 1
Output Terminals	VGA out x 1
	PC audio out (mini-jack) x 1
	USB type A power Only x1
Control Terminals	RS-232C
	USB (Type mini B) - service only
Security	Kensington Security Slot

Note: For questions regarding product specifications, please contact your local distributor.

Projection Distance vs. Projection Size



Projection Distance and Size Table

DH558 / DH559									
IMAGE DIAGONAL	IMAGE WIDTH		IMAGE HEIGHT		PROJECTION DISTANCE FROM		PROJECTION DISTANCE TO		OFFSET-A
(INCH)	(INCH)	(CM)	(INCH)	(CM)	(INCH)	(CM)	(INCH)	(CM)	(MM)
60	52.3	132.8	29.4	74.7	63.8	162.1	76.4	193.9	112.1
70	61.0	154.9	34.3	87.1	74.4	189.1	89.1	226.3	130.8
72	62.8	159.5	35.3	89.7	76.6	194.5	91.6	232.7	134.5
80	69.7	177.0	39.2	99.6	85.1	216.1	101.8	258.6	149.4
84	73.2	185.9	41.2	104.6	89.3	226.9	106.9	271.5	156.9
90	78.4	199.1	44.1	112.0	95.7	243.1	114.5	290.9	168.1
96	83.7	212.6	47.1	119.6	102.1	259.3	122.2	310.3	179.3
100	87.2	221.5	49.0	124.5	106.3	270.1	127.3	323.2	186.8
120	104.6	265.7	58.8	149.4	127.6	324.1	152.7	387.9	224.1
135	117.7	299.0	66.2	168.1	143.5	364.6	171.8	436.3	252.2
150	130.7	332.0	73.5	186.7	159.5	405.1	190.9	484.8	280.2
200	174.3	442.7	98.1	249.2	212.7	540.2	254.5	646.4	373.6

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	72.8	—	—	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	56.3	—	—	O	O
	800 x 600	37.9	60.3	—	—	O	O
	800 x 600	46.9	75.0	—	—	O	O
	800 x 600	48.1	72.2	—	—	O	O
	800 x 600	53.7	85.1	—	—	O	O
	800 x 600	76.3	120.0	—	—	O	O
	1024 x 768	48.4	60.0	—	—	O	O
	1024 x 768	56.5	70.1	—	—	O	O
	1024 x 768	60.0	75.0	—	—	O	O
	1024 x 768	68.7	85.0	—	—	O	O
	1024 x 768	97.6	120.0	—	—	O	O
	1280 x 720	45.0	60.0	—	—	O	O
	1280 x 720	91.5	119.9	—	—	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 800	101.6	119.9	—	—	O	O
	1280 x 1024	64.0	60.0	—	—	O	O
	1280 x 1024	80.0	75.0	—	—	O	O
	1280 x 1024	91.1	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

SIGNAL	RESOLUTION	H-SYNC (KHz)	V-SYNC (Hz)	COMPOSITE / S-VIDEO	COMPONENT	RGB	DVI/ HDMI
	1440 x 900	55.9	60.0	—	—	O	O
	1600 x1200	75.0	60	—	—	O	O
	1680 x 1050	64.7	59.9	—	—	O	O
	1680 x 1050	65.3	60	—	—	O	O
	1920 x 1080	67.5	60	—	—	O	O
	1920 x 1200	74	60	—	—	O	O
Apple Mac	640 x 480	35.0	66.7	—	—	O	O
	832 x 624	49.7	74.5	—	—	O	O
	1024 x 768	60.2	74.9	—	—	O	O
	1152 x 870	68.7	75.1	—	—	O	O
SDTV	480i	15.734	60.0	—	O	—	O
	576i	15.625	50.0	—	O	—	O
EDTV	576p	31.3	50.0	—	O	—	O
	480p	31.5	60.0	—	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
	1080p	27	24.0	—	O	—	O
	1080p	28	25.0	—	O	—	O
	1080p	33.7	30.0	—	O	—	O

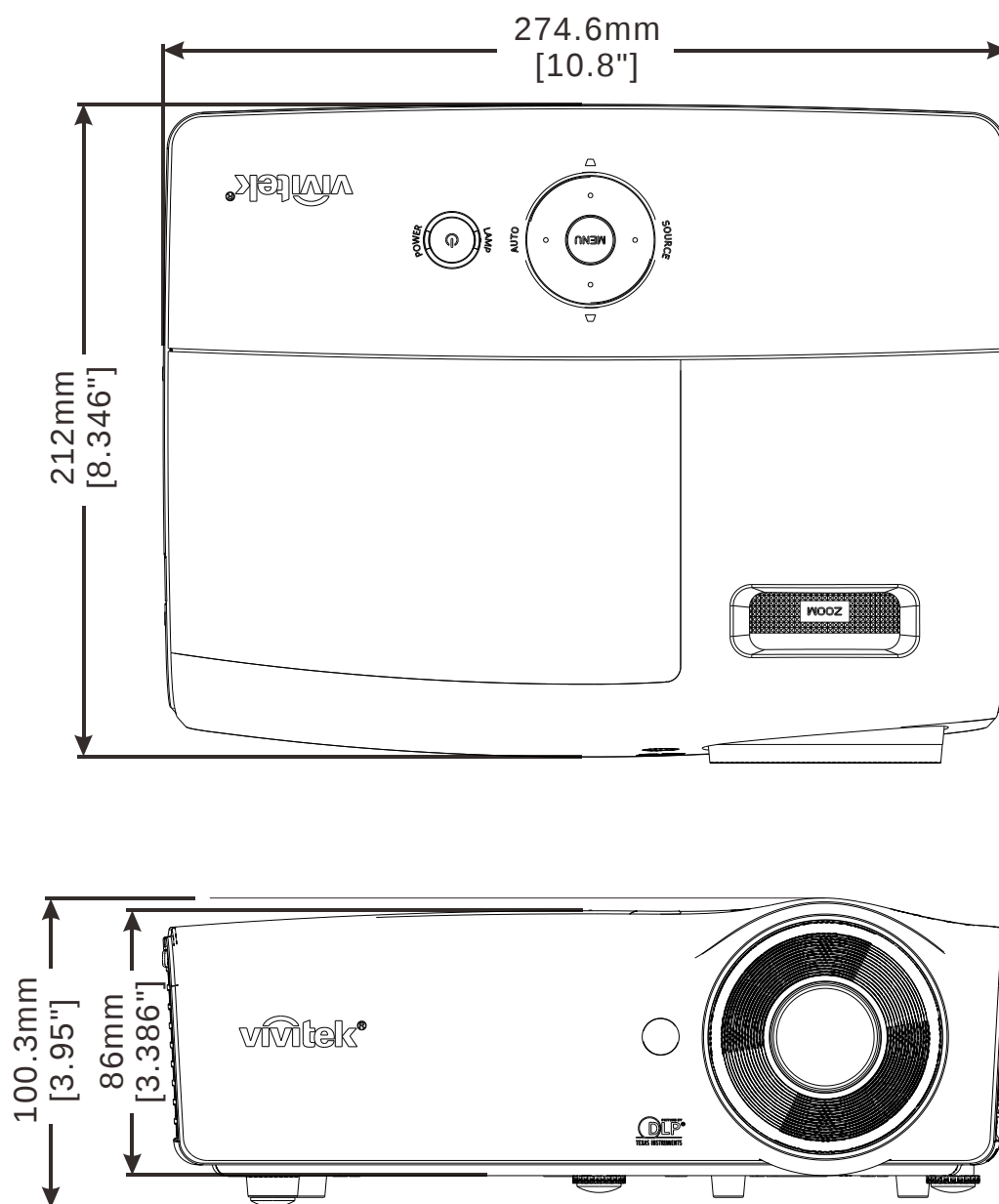
O : Frequency supported

— : Frequency not supported

* : The color of mean may have a little noise is acceptable

* : HDTV timing main check tool is DVD player, VG828 is secondary.

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, cUL, UL, UL-AR, CE, CB, KC, NOM, CCC

APPENDIX I

RS-232C Protocol

RS232 Setting

Baud rate:	9600
Parity check:	None
Data bit:	8
Stop bit:	1
Flow Control	None

Minimum delay for next command: **1ms**

Control Command Structure

	Header code	Command code	Data code	End code
HEX		Command	Data	0Dh
ASCII	'V'	Command	Data	CR

Operation Command

<i>Note:</i> "CR" mean Carriage Return XX=00-98, projector's ID, XX=99 is for all projectors Return Result P=Pass / F=Fail n: 0:Disable/1: Enable/Value(0~9999)
--

COMMAND GROUP 00				
ASCII	HEX	FUNCTION	DESCRIPTION	RETURN RESULT
VXXS0001	56h Xh Xh 53h 30h 30h 30h 31h 0Dh	Power On		P/F
VXXS0002	56h Xh Xh 53h 30h 30h 30h 32h 0Dh	Power Off		P/F
VXXS0003	56h Xh Xh 53h 30h 30h 30h 33h 0Dh	Resync		P/F
VXXG0004	56h Xh Xh 47h 30h 30h 30h 34h 0Dh	Get Lamp Hours		Pn/F
VXXS0005n	56h Xh Xh 53h 30h 30h 30h 35h nh 0Dh	Set Air filter timer	n=0~999999	P/F
VXXG0005	56h Xh Xh 47h 30h 30h 30h 35h 0Dh	Get Air filter timer	n=0~999999	Pn/F
VXXS0006	56h Xh Xh 53h 30h 30h 30h 36h 0Dh	System Reset		P/F
VXXG0007	56h Xh Xh 47h 30h 30h 30h 37h 0Dh	Get System Status	0: Reset 1: Standby 2: Operation 3: Cooling	Pn/F
VXXG0008	56h Xh Xh 47h 30h 30h 30h 38h 0Dh	Get F/W Version		Pn/F
VXXG0009	56h Xh Xh 47h 30h 30h 30h 39h 0Dh	Get Alter EMail		Pn/F
VXXS0009n	56h Xh Xh 53h 30h 30h 30h 39h nh 0Dh	Set Alter Email	n=xxxxxx@xxx.x xx.xx	P/F

COMMAND GROUP 01				
ASCII	HEX	FUNCTION	DESCRIPTION	RETURN VALUE
VXXG0101	56h Xh Xh 47h 30h 31h 30h 31h 0Dh	Get Brightness	n=0~100	Pn/F
VXXS0101n	56h Xh Xh 53h 30h 31h 30h 31h nh 0Dh	Set Brightness	n=0~100	P/F
VXXG0102	56h Xh Xh 47h 30h 31h 30h 32h 0Dh	Get Contrast	n=0~100	Pn/F
VXXS0102n	56h Xh Xh 53h 30h 31h 30h 32h nh 0Dh	Set Contrast	n=0~100	P/F
VXXG0103	56h Xh Xh 47h 30h 31h 30h 33h 0Dh	Get Color	n=0~100	Pn/F
VXXS0103n	56h Xh Xh 53h 30h 31h 30h 33h nh 0Dh	Set Color	n=0~100	P/F
VXXG0104	56h Xh Xh 47h 30h 31h 30h 34h 0Dh	Get Tint	n=0~100	Pn/F
VXXS0104n	56h Xh Xh 53h 30h 31h 30h 34h nh 0Dh	Set Tint	n=0~100	P/F
VXXG0105	56h Xh Xh 47h 30h 31h 30h 35h 0Dh	Get Sharpness	0~31	Pn/F
VXXS0105n	56h Xh Xh 53h 30h 31h 30h 35h nh 0Dh	Set Sharpness	0~31	P/F
VXXG0106	56h Xh Xh 47h 30h 31h 30h 36h 0Dh	Get Color Temperature	0:Warm 1:Normal 2:Cold	Pn/F
VXXS0106n	56h Xh Xh 53h 30h 31h 30h 36h nh 0Dh	Set Color Temperature	0:Warm 1:Normal 2:Cold	P/F
VXXG0107	56h Xh Xh 47h 30h 31h 30h 37h 0Dh	Get Gamma	0:1.8 1:2.0C 2:2.2 3:2.4 4:B&W 5:Linear	Pn/F
VXXS0107n	56h Xh Xh 53h 30h 31h 30h 37h nh 0Dh	Set Gamma	0:1.8 1:2.0C 2:2.2 3:2.4 4:B&W 5:Linear	P/F
VXXG0108	56h Xh Xh 47h 30h 31h 30h 38h 0Dh	Get Display Mode	0: Presentation 1:Bright 2:Game 3:Movie 4:TV 5:sRGB 6:BlackBoard 7:User	Pn/F
VXXS0108n	56h Xh Xh 53h 30h 31h 30h 38h nh 0Dh	Set Display Mode	0: Presentation 1:Bright 2:Game 3:Movie 4:TV 5:sRGB 6:BlackBoard 7:User	P/F

COMMAND GROUP 02				
ASCII	HEX	FUNCTION	DESCRIPTION	RETURN VALUE
VXXS0201	56h Xh Xh 53h 30h 32h 30h 31h 0Dh	Select RGB		P/F
VXXS0202	56h Xh Xh 53h 30h 32h 30h 32h 0Dh	Select RGB2		P/F
VXXS0203	56h Xh Xh 53h 30h 32h 30h 33h 0Dh	Select DVI		P/F
VXXS0204	56h Xh Xh 53h 30h 32h 30h 34h 0Dh	Select Video		P/F
VXXS0205	56h Xh Xh 53h 30h 32h 30h 35h 0Dh	Select S-Video		P/F

COMMAND GROUP 02				
ASCII	HEX	FUNCTION	DESCRIPTION	RETURN VALUE
VXXS0206	56h Xh Xh 53h 30h 32h 30h 36h 0Dh	Select HDMI		P/F
VXXS0207	56h Xh Xh 53h 30h 32h 30h 37h 0Dh	Select BNC		P/F
VXXS0208	56h Xh Xh 53h 30h 32h 30h 38h 0Dh	Select Component		P/F
VXXS0209	56h Xh Xh 53h 30h 32h 30h 39h 0Dh	Select HDMI 2(MEDIA)		P/F
VXXS0210	56h Xh Xh 53h 30h 32h 31h 30h 0Dh	Select HDMI 3		P/F
VXXG0220	56h Xh Xh 47h 30h 32h 32h 30h 0Dh	Get Current Source	Return 1:RGB 2:RGB2 3:DVI 4:Video 5:S-Video 6:HDMI 7:BNC 8:Component 9:HDMI2 11:MEDIA 12:HDMI 3	Pn/F

COMMAND GROUP 03				
ASCII	HEX	FUNCTION	DESCRIPTION	RETURN VALUE
VXXG0301	56h Xh Xh 47h 30h 33h 30h 31h 0Dh	Get Scaling	0:Fill 1:4:3 2:16:9 3:Letter Box 4:Native 5:2.35:1	Pn/F
VXXS0301n	56h Xh Xh 53h 30h 33h 30h 31h nh 0Dh	Set Scaling	0:Fill 1:4:3 2:16:9 3:Letter Box 4:Native 5:2.35:1	P/F
VXXG0302	56h Xh Xh 47h 30h 33h 30h 32h 0Dh	Blank		Pn/F
VXXS0302n	56h Xh Xh 53h 30h 33h 30h 32h nh 0Dh	Blank		P/F
VXXG0303	56h Xh Xh 47h 30h 33h 30h 33h 0Dh	Auto Keystone On		Pn/F
VXXS0303n	56h Xh Xh 53h 30h 33h 30h 33h nh 0Dh	Auto Keystone On		P/F
VXXG0304	56h Xh Xh 47h 30h 33h 30h 34h 0Dh	Freeze On		Pn/F
VXXS0304n	56h Xh Xh 53h 30h 33h 30h 34h nh 0Dh	Freeze On		P/F
VXXG0305	56h Xh Xh 47h 30h 33h 30h 35h 0Dh	Volume	n=0~10	Pn/F
VXXS0305n	56h Xh Xh 53h 30h 33h 30h 35h nh 0Dh	Volume	n=0~10	P/F
VXXG0306	56h Xh Xh 47h 30h 33h 30h 36h 0Dh	Treble	n=0~16	Pn/F
VXXS0306n	56h Xh Xh 53h 30h 33h 30h 36h nh 0Dh	Treble	n=0~16	P/F
VXXG0307	56h Xh Xh 47h 30h 33h 30h 37h 0Dh	Bass	n=0~16	Pn/F
VXXS0307n	56h Xh Xh 53h 30h 33h 30h 37h nh 0Dh	Bass	n=0~16	P/F

COMMAND GROUP 03				
ASCII	HEX	FUNCTION	DESCRIPTION	RETURN VALUE
VXXG0308	56h Xh Xh 47h 30h 33h 30h 38h 0Dh	Projection Mode	0:Front 1:Rear 2: Ceiling 3: Rear+Ceiling	Pn/F
VXXS0308n	56h Xh Xh 53h 30h 33h 30h 38h nh 0Dh	Projection Mode	0:Front 1:Rear 2: Ceiling 3: Rear+Ceiling	P/F
VXXG0309	56h Xh Xh 47h 30h 33h 30h 39h 0Dh	Set vertical keystone value	n=-40~+40	Pn/F
VXXS0309n	56h Xh Xh 53h 30h 33h 30h 39h nh 0Dh	Set vertical keystone value	n=-40~+40	P/F
VXXG0310	56h Xh Xh 47h 30h 33h 31h 30h 0Dh	Set horizontal keystone value	n=-20~+20	Pn/F
VXXS0310n	56h Xh Xh 53h 30h 33h 31h 30h nh 0Dh	Set horizontal keystone value	n=-20~+20	P/F
VXXG0311	56h Xh Xh 47h 30h 33h 31h 31h 0Dh	Adjust the zoom	n=-10~+10	Pn/F
VXXS0311n	56h Xh Xh 53h 30h 33h 31h 31h nh 0Dh	Adjust the zoom	n=-10~+10	P/F
VXXG0312	56h Xh Xh 47h 30h 33h 31h 32h 0Dh	Adjust the focus	n=-20~+20	Pn/F
VXXS0312n	56h Xh Xh 53h 30h 33h 31h 32h nh 0Dh	Adjust the focus	n=-20~+20	P/F
VXXG0313	56h Xh Xh 47h 30h 33h 31h 33h 0Dh	Adjust the vertical lens shift	n=-20~+20	Pn/F
VXXS0313n	56h Xh Xh 53h 30h 33h 31h 33h nh 0Dh	Adjust the vertical lens shift	n=-20~+20	P/F
VXXG0314	56h Xh Xh 47h 30h 33h 31h 34h 0Dh	Adjust the horizontal lens shift	n=-20~+20	Pn/F
VXXS0314n	56h Xh Xh 53h 30h 33h 31h 34h nh 0Dh	Adjust the horizontal lens shift	n=-20~+20	P/F
VXXG0315	56h Xh Xh 47h 30h 33h 31h 35h 0Dh	Adjust the 3D Mode	n= 0~2	Pn/F
VXXS0315n	56h Xh Xh 53h 30h 33h 31h 35h nh 0Dh	Adjust the 3D Mode	0:Off 1:DLP 2: IR	P/F
VXXG0316	56h Xh Xh 47h 30h 33h 31h 36h 0Dh	Adjust the 3D sync inverter	n= 0~1	Pn/F
VXXS0316n	56h Xh Xh 53h 30h 33h 31h 36h nh 0Dh	Adjust the 3D sync inverter	0:Off 1:On	P/F
VXXG0317	56h Xh Xh 53h 30h 33h 31h 37h 0Dh	Adjust the 3D format	n= 0~3	P/F
VXXS0317n	56h Xh Xh 47h 30h 33h 31h 37h nh 0Dh	Adjust the 3D format	0:FS 1:TB 2:SBS 3:FP	Pn/F
VXXG0319	56h Xh Xh 47h 30h 33h 31h 39h 0Dh	Adjust the Lamp mode	n= 0~2	Pn/F
VXXS0319n	56h Xh Xh 53h 30h 33h 31h 39h nh 0Dh	Adjust the Lamp mode	0:Eco 1:Normal 2:Dynamic	P/F
VXXG0322	56h Xh Xh 47h 30h 33h 32h 32h 0Dh	Get Fan Speed	n= 0~1	Pn/F
VXXS0322n	56h Xh Xh 53h 30h 33h 32h 32h nh 0Dh	Set Fan Speed	0:Normal 1:High Speed	P/F
VXXG0331	56h Xh Xh 47h 30h 33h 33h 31h 0Dh	Get the R gain	n= 0~200	Pn/F
VXXS0331n	56h Xh Xh 53h 30h 33h 33h 31h nh 0Dh	Set the R gain	n= 0~200	P/F
VXXG0332	56h Xh Xh 47h 30h 33h 33h 32h 0Dh	Get the G gain	n= 0~200	Pn/F
VXXS0332n	56h Xh Xh 53h 30h 33h 33h 32h nh 0Dh	Set the G gain	n= 0~200	P/F

COMMAND GROUP 03				
ASCII	HEX	FUNCTION	DESCRIPTION	RETURN VALUE
VXXG0333	56h Xh Xh 47h 30h 33h 33h 33h 0Dh	Get the B gain	n= 0~200	Pn/F
VXXS0333n	56h Xh Xh 53h 30h 33h 33h 33h nh 0Dh	Set the B gain	n= 0~200	P/F
VXXG0334	56h Xh Xh 53h 30h 33h 31h 37h 0Dh	Get the R offset	n= -100~100	P/F
VXXS0334n	56h Xh Xh 47h 30h 33h 31h 37h nh 0Dh	Set the R offset	n= -100~100	Pn/F
VXXG0335	56h Xh Xh 47h 30h 33h 31h 39h 0Dh	Get the G offset	n= -100~100	Pn/F
VXXS0335n	56h Xh Xh 53h 30h 33h 31h 39h nh 0Dh	Set the G offset	n= -100~100	P/F
VXXG0336	56h Xh Xh 47h 30h 33h 32h 32h 0Dh	Get the B offset	n= -100~100	Pn/F
VXXS0336n	56h Xh Xh 53h 30h 33h 32h 32h nh 0Dh	Set the B offset	n= -100~100	P/F
VXXG0337	56h Xh Xh 47h 30h 33h 33h 37h 0Dh	Get the white R gain	n= 0~100	Pn/F
VXXS0337n	56h Xh Xh 53h 30h 33h 33h 37h nh 0Dh	Set the white R gain	n= 0~100	P/F
VXXG0338	56h Xh Xh 47h 30h 33h 33h 38h 0Dh	Get the white G gain	n= 0~200	Pn/F
VXXS0338n	56h Xh Xh 53h 30h 33h 33h 38h nh 0Dh	Set the white G gain	n= 0~200	P/F
VXXG0339	56h Xh Xh 47h 30h 33h 33h 39h 0Dh	Get the white B gain	n= 0~200	Pn/F
VXXS0339n	56h Xh Xh 53h 30h 33h 33h 39h nh 0Dh	Set the white B gain	n= 0~200	P/F
VXXG0340	56h Xh Xh 53h 30h 33h 34h 30h 0Dh	Get the Red Hue	n= -100~100	P/F
VXXS0340n	56h Xh Xh 47h 30h 33h 34h 30h nh 0Dh	Set the Red Hue	n= -100~100	Pn/F
VXXG0341	56h Xh Xh 47h 30h 33h 34h 31h 0Dh	Get the Red Saturation	n= -100~100	Pn/F
VXXS0341n	56h Xh Xh 53h 30h 33h 34h 31h nh 0Dh	Set the Red Saturation	n= -100~100	P/F
VXXG0342	56h Xh Xh 47h 30h 33h 34h 32h 0Dh	Get the Red Gain	n= -100~100	Pn/F
VXXS0342n	56h Xh Xh 53h 30h 33h 34h 32h nh 0Dh	Set the Red Gain	n= -100~100	P/F
VXXG0343	56h Xh Xh 53h 30h 33h 34h 33h 0Dh	Get the Green Hue	n= -100~100	P/F
VXXS0343n	56h Xh Xh 47h 30h 33h 34h 33h nh 0Dh	Set the Green Hue	n= -100~100	Pn/F
VXXG0344	56h Xh Xh 47h 30h 33h 34h 34h 0Dh	Get the Green Saturation	n= -100~100	Pn/F
VXXS0344n	56h Xh Xh 53h 30h 33h 34h 34h nh 0Dh	Set the Green Saturation	n= -100~100	P/F
VXXG0345	56h Xh Xh 47h 30h 33h 34h 35h 0Dh	Get the Green Gain	n= -100~100	Pn/F
VXXS0345n	56h Xh Xh 53h 30h 33h 34h 35h nh 0Dh	Set the Green Gain	n= -100~100	P/F
VXXG0346	56h Xh Xh 53h 30h 33h 34h 36h 0Dh	Get the Blue Hue	n= -100~100	P/F
VXXS0346n	56h Xh Xh 47h 30h 33h 34h 36h nh 0Dh	Set the Blue Hue	n= -100~100	Pn/F
VXXG0347	56h Xh Xh 47h 30h 33h 34h 37h 0Dh	Get the Blue Saturation	n= -100~100	Pn/F
VXXS0347n	56h Xh Xh 53h 30h 33h 34h 37h nh 0Dh	Set the Blue Saturation	n= -100~100	P/F
VXXG0348	56h Xh Xh 47h 30h 33h 34h 38h 0Dh	Get the Blue Gain	n= -100~100	Pn/F
VXXS0348n	56h Xh Xh 53h 30h 33h 34h 38h nh 0Dh	Set the Blue Gain	n= -100~100	P/F
VXXG0349	56h Xh Xh 53h 30h 33h 34h 39h 0Dh	Get the Cyan Hue	n= -100~100	P/F
VXXS0349n	56h Xh Xh 47h 30h 33h 34h 39h nh 0Dh	Set the Cyan Hue	n= -100~100	Pn/F
VXXG0350	56h Xh Xh 47h 30h 33h 35h 30h 0Dh	Get the Cyan Saturation	n= -100~100	Pn/F
VXXS0350n	56h Xh Xh 53h 30h 33h 35h 30h nh 0Dh	Set the Cyan Saturation	n= -100~100	P/F
VXXG0351	56h Xh Xh 47h 30h 33h 35h 31h 0Dh	Get the Cyan Gain	n= -100~100	Pn/F
VXXS0351n	56h Xh Xh 53h 30h 33h 35h 31h nh 0Dh	Set the Cyan Gain	n= -100~100	P/F
VXXG0352	56h Xh Xh 53h 30h 33h 35h 32h 0Dh	Get the Magenta Hue	n= -100~100	P/F
VXXS0352n	56h Xh Xh 47h 30h 33h 35h 32h nh 0Dh	Set the Magenta Hue	n= -100~100	Pn/F

COMMAND GROUP 03				
ASCII	HEX	FUNCTION	DESCRIPTION	RETURN VALUE
VXXG0353	56h Xh Xh 47h 30h 33h 35h 33h 0Dh	Get the Magenta Saturation	n= -100~100	Pn/F
VXXS0353n	56h Xh Xh 53h 30h 33h 35h 33h nh 0Dh	Set the Magenta Saturation	n= -100~100	P/F
VXXG0354	56h Xh Xh 47h 30h 33h 35h 34h 0Dh	Get the Magenta Gain	n= -100~100	Pn/F
VXXS0354n	56h Xh Xh 53h 30h 33h 35h 34h nh 0Dh	Set the Magenta Gain	n= -100~100	P/F
VXXG0355	56h Xh Xh 53h 30h 33h 35h 35h 0Dh	Get the Yellow Hue	n= -100~100	P/F
VXXS0355n	56h Xh Xh 47h 30h 33h 35h 35h nh 0Dh	Set the Yellow Hue	n= -100~100	Pn/F
VXXG0356	56h Xh Xh 47h 30h 33h 35h 36h 0Dh	Get the Yellow Saturation	n= -100~100	Pn/F
VXXS0356n	56h Xh Xh 53h 30h 33h 35h 36h nh 0Dh	Set the Yellow Saturation	n= -100~100	P/F
VXXG0357	56h Xh Xh 47h 30h 33h 35h 37h 0Dh	Get the Yellow Gain	n= -100~100	Pn/F
VXXS0357n	56h Xh Xh 53h 30h 33h 35h 37h nh 0Dh	Set the Yellow Gain	n= -100~100	P/F
VXXG0358	56h Xh Xh 47h 30h 33h 35h 38h 0Dh	Get IR On/Off Status	n= 0~3	Pn/F
VXXS0358n	56h Xh Xh 53h 30h 33h 35h 38h nh 0Dh	Get IR On/Off Status	0:Both on 1:Front on 2:Back on 3:Both off	P/F