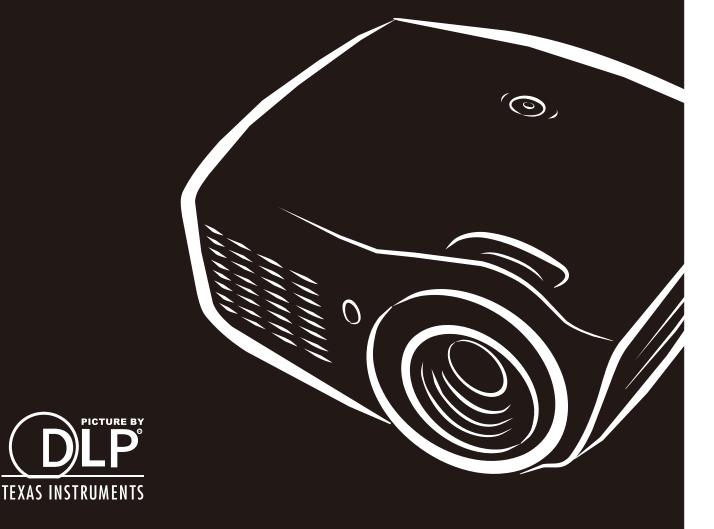
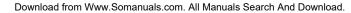


D91X / D86X series





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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.

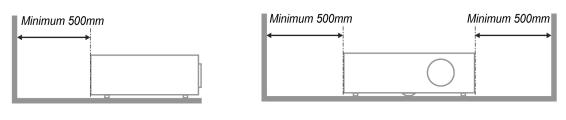
Projector Installation Notice

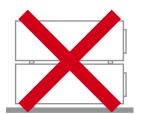
> Place the projector in a horizontal position

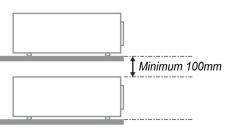
The tilt angle of the projector should not exceed 15 degrees, nor should the projector be installed in any way other than the desktop and ceiling mount, otherwise lamp life could decrease dramatically, and may lead to other unpredictable damages.

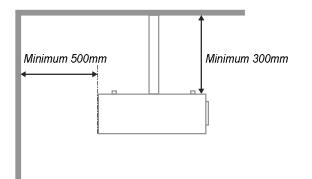


> Allow at least 50 cm clearance around the exhaust vent.









- > 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 with 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 45 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 48.
- > 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 62.

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 <u>WWW.EIAE.ORG</u>. For lamp specific disposal information check <u>WWW.LAMPRECYCLE.ORG</u>.

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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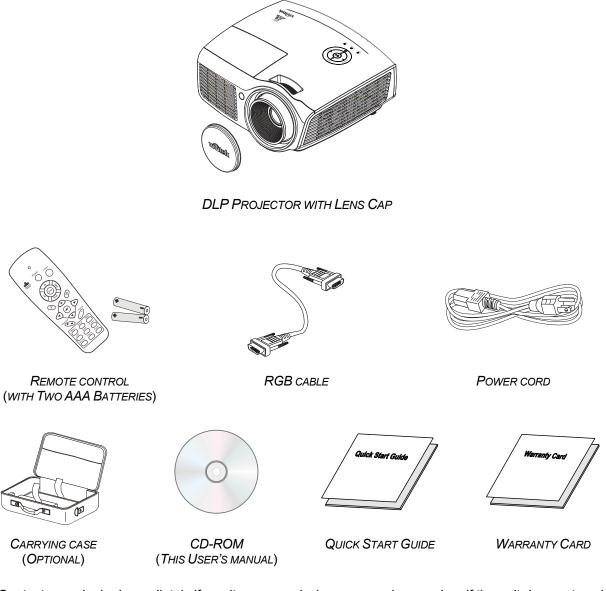
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GETTING STARTED

Packing Checklist

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



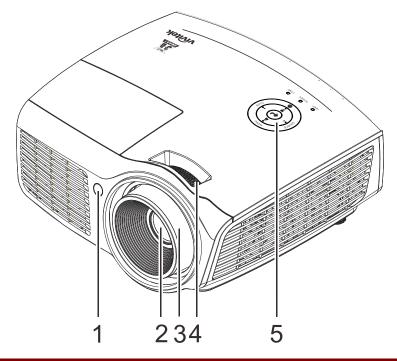
Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work. It is recommend that you keep the original packing material should you ever need to return the equipment for warranty service.

Caution:

Avoid using the projector in dusty environments.

Views of Projector Parts

Front-right View

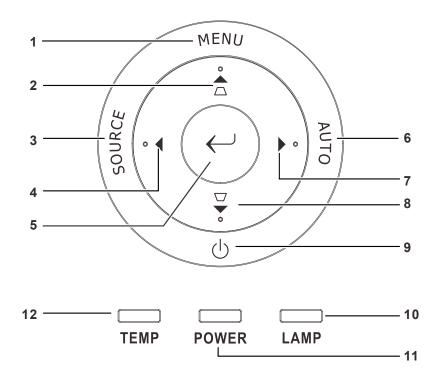


Ітем	LABEL	DESCRIPTION	SEE PAGE	
1.	IR receiver	Receive IR signal from remote control		
2.	Lens	Projection Lens		
3.	Focus ring	Focuses the projected image	- 16	
4.	Zoom ring	Enlarges the projected image		
5.	Function keys	See Top view—On-screen Display (OSD) buttons and LEDs.	3	

Important:

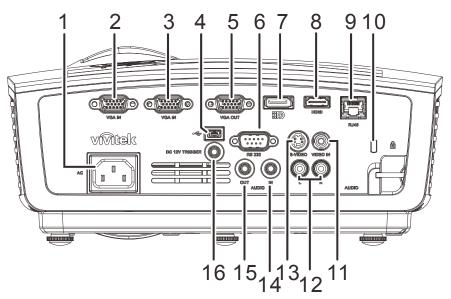
Ventilation openings on the projector allow for good air circulation, which keeps the projector lamp cool. Do not obstruct any of the ventilation openings.

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



Ітем	LABEL		DESCRIPTION	
1.	MENU	Opens and exi	Opens and exits OSD menus	
2.		Navigates in th Quick Menu –		17
3.	SOURCE	Enter the Sour	rce menu	
4.	•	Navigates and	changes settings in the OSD	17
5.	\longleftarrow	Enter or confir	m highlighted OSD menu item	
6.	AUTO	Optimizes image size, position, and resolution		
7.		Navigates and changes settings in the OSD		47
8.		Navigates in the OSD Quick Menu – For Keystone		17
9.	Ċ	Turns the projector On or Off		
10.	LAMP LED	Flashing Error code		
11.	POWER LED	Blue	Lamp Ready, Over Temperature	51
		Flashing	Start, Cooling, Error code	
12.	TEMP LED	Red	Over Temperature	

Rear view



Ітем	LABEL	DESCRIPTION	SEE PAGE
1.	AC IN	Connect the POWER cable 11	
2.	VGA IN	Connect the RGB cable from a computer	
3.	VGA IN	Connect the RGB cable from a computer	
4.	(USB)	Connect the USB cable from a computer	
5.	VGA OUT	Connect the RGB cable to a display	
6.	RS-232C	Connect RS-232 serial port cable for remote control	
7.	DP	Connect a DISPLAYPORT CABLE from a DISPLAYPORT device	
8.	HDMI	Connect the HDMI cable from a HDMI device	
9.	RJ45	Connect a LAN cable from Ethernet	
10.	Kensington Lock	Secure to permanent object with a Kensington® Lock system	49
11.	VIDEO IN	Connect the COMPOSITE cable from a video device	
12.	AUDIO IN (L and R)	Connect the AUDIO cable from a audio device	
13.	S-VIDEO	Connect the S-VIDEO cable from a video device	
14.	AUDIO IN	Connect an AUDIO cable from the audio device	
15.	AUDIO OUT	Connect an AUDIO cable to audio amplifier	
16.	DC 12V TRIGGER	When connected to the screen through a commercially available cable, the screen deploys automatically on start up of the projector. The screen retracts when the projector is powered off (see notes below).	

Note:

• To use this feature, you must plug in the connector before turn on/off the projector.

• Screen controllers are supplied and supported by screen manufacturers.

• Do not use this jack for anything other than intended use.

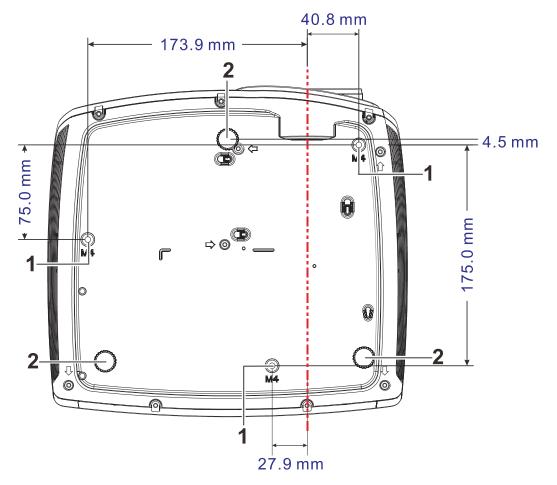
Note:

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.

Warning:

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

Bottom view



Ітем	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.	15

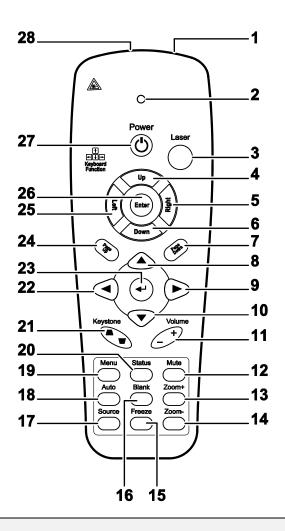
Note:

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 12 mm (0.47 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.

DLP Projector—User's Manual

Ітем	LABEL	DESCRIPTION	SEE PAGE	
1.	IR transmitter	Transmits signals to projector		
2.	Status LED	Lights when the remote control is used		
3.	Laser	Press to operate the on-screen pointer		
4.	Up	Up arrow when connected through USB to a PC		
5.	Right	Right arrow when connected through USB to a PC		
6.	Down	Down arrow when connected through USB to a PC		
7.	Page Down	Page down when connected through USB to a PC		
8.	Up cursor	Navigates in the OSD		
9.	Right cursor	Navigates and changes settings in the OSD	17	
10.	Down cursor	Navigates in the OSD		
11.	Volume +/-	Adjusts volume	16	
12.	Mute	Mutes the built-in speaker		
13.	Zoom+	Zoom in		
14.	Zoom-	Zoom out		
15.	Freeze	Freeze/unfreezes the on-screen picture		
16.	Blank	Makes the screen blank		
17.	Source	Detects the input device		
18.	Auto	Auto adjustment for phase, tracking, size, position		
19.	Menu	Opens or exit the OSD	17	
20.	Status	Opens the OSD Status menu (the menu only opens when an input device is detected)	30	
21.	Keystone top/bottom	Corrects image-trapezoid (wider top/bottom) effect	16	
22.	Left cursor	Navigates and changes settings in the OSD		
23.	Enter	Changes settings in the OSD		
24.	Page Up	Page up when connected through USB to a PC 17		
25.	Left	Left arrow when connected through USB to a PC		
26.	Enter	Enter key when connected through USB to a PC		
27.	Power	Turns the projector on or off11		
28.	Laser	Use as on-screen pointer. DO NOT POINT IN EYES.		

<u>Caution:</u>

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

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

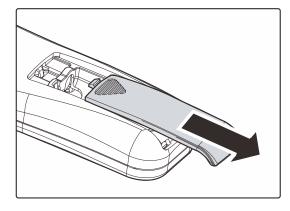
1 Remove the battery compartment cover by sliding the cover in the direction of the arrow.

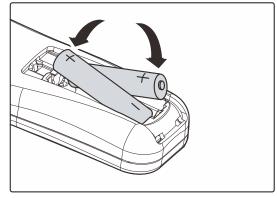
2. Insert the battery with the positive side facing up.

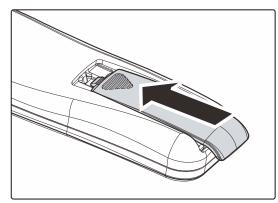
3 Replace the cover.

Caution:

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







SETUP AND OPERATION

Starting and Shutting down the Projector

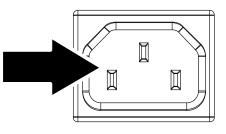
- Connect the power cord to the projector. Connect the other end to a wall outlet. The **O POWER** LED on the projector light.
- **2.** Turn on the connected devices.
- **3.** Ensure the POWER LED not a flashing. Then press the **(b) POWER** button to turn on the projector.

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.

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.)







- HDMI : High-Definition Multimedia Interface
- DisplayPort : Display Port
- VGA 1 : Analog RGB 1
- VGA 2 : Analog RGB 2
- S-Video: Super video (Y/C separated)
- Composite Video : Traditional composite video

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 POWER LED stops flashing–indicating the projector has cooled down.

Settings 2

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≁/}

Settings 2

+/>

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+/)

Scroll

Scroll 🔺 🔻

X

Presentation

Setting an Access Password (Security Lock)

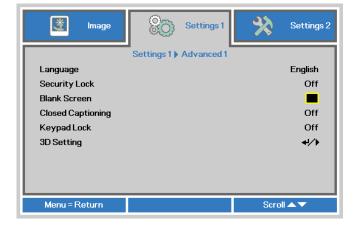
You can use the four (arrow) buttons to set a password and prevent unauthorized use of the projector. When enabled, the password must be entered after you power on the projector. (See *Navigating the OSD* on page 17 and *Setting the OSD Language* on page 18 for help on using OSD menus.)

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 80 237 Image Settings 1 OSD menu. Display Mode Brightness Contrast Computer Auto Image Advanced Color Manager Menu = Exit Menu Select 🌗 **2** Press the cursor $\triangleleft \triangleright$ button to move දිට Ž Image Settings 1 to the Settings 1 menu, press the cursor ▲ ▼ button to select Advanced 1. Source Projection Aspect Ratio Keystone Digital Zoom Audio Advanced 1
- 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.



Menu Select 🌗

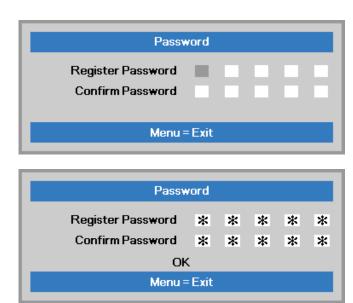
Advanced 2

Menu = Exit

5. You can use the cursor buttons
▲▼ ◀►

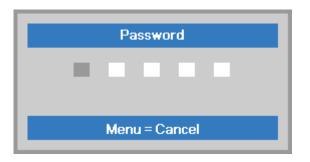
either on keypad or IR remote control for password entry. You can use any combination including the same arrow five times, but not less than five.

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.

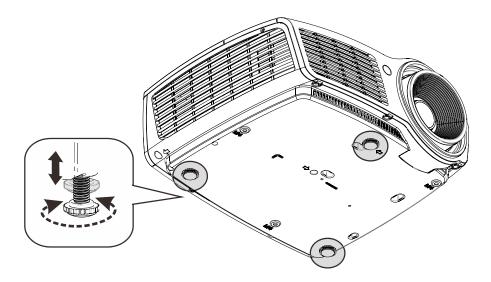
The service center will validate the owner and help reset the password.



Adjusting the Projector Level

Take note of the following when setting up the projector:

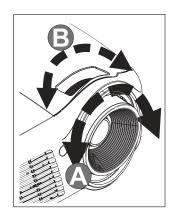
- The projector table or stand should be level and sturdy.
- Position the projector so that it is perpendicular to the screen.
- Ensure the cables are in a safe location. You could trip over them.

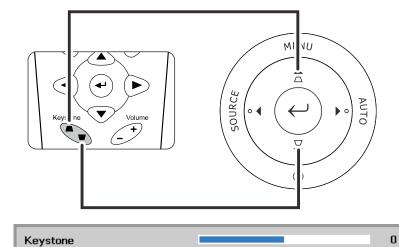


To adjust the angle of the picture, turn the tilt-adjuster right or left until the desired angle has been achieved.

Adjusting the Zoom, Focus and Keystone

- 1. Use the Image-zoom control (on the projector only) to resize the projected image and screen size (3).
- 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.

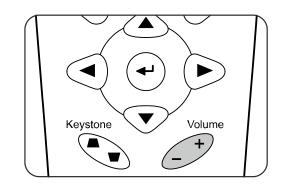




4 The keystone control appears on the display.

Adjusting the Volume

 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).



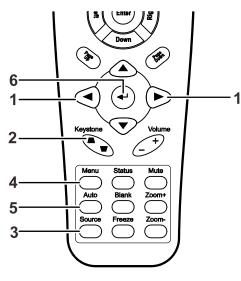
ON-SCREEN DISPLAY (OSD) MENU SETTINGS

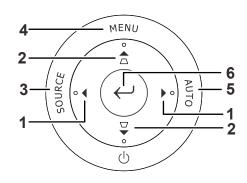
OSD Menu Controls

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.
- There are three menus.
 Press the cursor ◄► button to move through the menus.
- 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.

image	Settings 1	Settings 2
Display Mode Brightness Contrast Computer Auto Image Advanced Color Manager		Presentation 50 50 4// 4// 4//
Menu = Exit	Menu Select 🜗	Scroll 🔺 🔻

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.

image	Settings 1	Settings 2
Source Projection Aspect Ratio Keystone Digital Zoom Audio		+ /∕ P Fill 0 4/∕
Advanced 1		↓ /▶
Advanced 2		4!/ }
Menu = Exit	Menu Select 🌗	Scroll 🔺 🔻

2. Press ← (Enter) / ► to enter the Advanced 1 sub menu. Press the cursor ▲ ▼ button until Language is highlighted.

image	Settings 1	Settings 2
	Settings 1 Advanced 1	
Language		English
Security Lock		Off
Blank Screen		
Closed Captioning		Off
Keypad Lock		Off
3D Setting		↓ /▶
Menu = Return		Scroll 🔺 🔻

- 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.

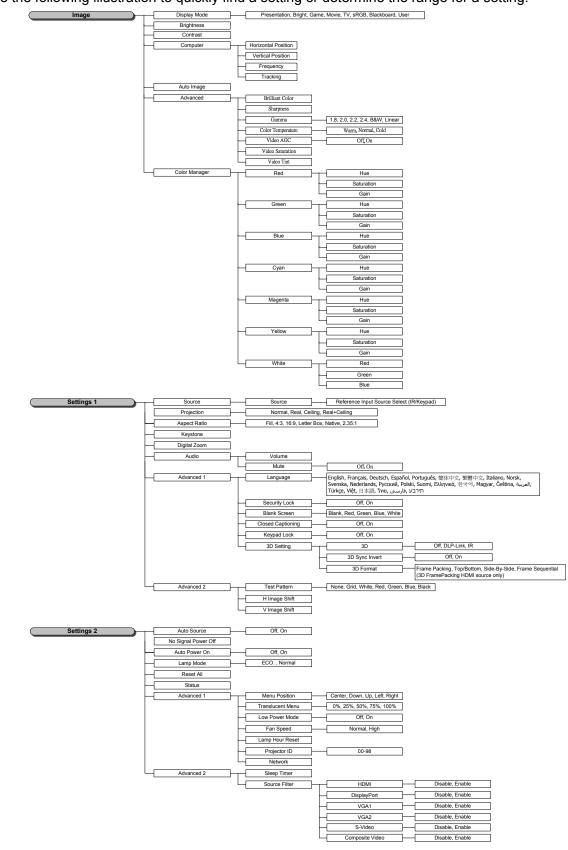
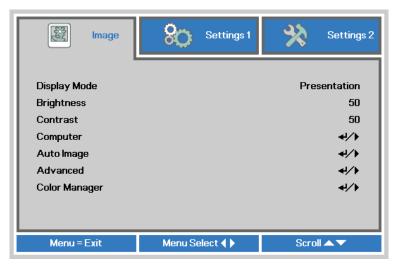


Image Menu

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 $\triangleleft \triangleright$ button to move to the **Image Menu**. Press the cursor $\triangleleft \checkmark$ button to move up and down in the **Image** menu. Press $\triangleleft \triangleright$ to enter and change values for settings.



Ітем	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 <i>Computer Menu</i> on page 21.	
Auto Image	Press	
Advanced	Press	
Color Manager	Press	

Computer Menu

Press the **MENU** button to open the **OSD** menu. Press $\blacktriangleleft \triangleright$ to move to the **Image** menu. Press $\blacktriangle \lor$ to move to the **Computer** menu and then press **Enter** or \triangleright . Press $\blacktriangle \lor$ to move up and down in the **Computer** menu.

Image	Settings 1	Settings 2
	Image) Computer	
Horizontal Position		0
Vertical Position		0
Frequency		0
Tracking		0
Menu = Return		Scroll 🔺 🔻

Ітем	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 $\blacktriangleleft \triangleright$ to move to the **Image** menu. Press $\blacktriangledown \blacktriangle$ to move to the **Advanced** menu and then press **Enter** or \triangleright . Press $\blacktriangledown \blacktriangle$ to move up and down in the **Advanced** menu.

kan	Settings 1	Settings 2
	Image 🕨 Advanced	
Brilliant Color		5
Sharpness		16
Gamma		1.8
Color Temperature		Normal
Video AGC		Off
Video Saturation		50
Video Tint		50
Menu = Return		Scroll 🔺 🔻

Ітем	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 cursor ◀► button to enter and enable or disable the Automatic Gain Control for video source.
Video Saturation	Press the cursor ◄ ► button to enter and adjust the video saturation.
Video Tint	Press the cursor ◄ ► button to enter and adjust the video tint/hue.

Color Manager

Press the **Menu** button to open the **OSD** menu. Press $\blacktriangleleft \triangleright$ to move to the **Image** menu. Press $\blacktriangledown \blacktriangle$ to move to the **Color Manager** menu and then press **Enter** or \triangleright . Press $\blacktriangledown \blacktriangle$ to move up and down in the **Color Manager** menu.

image	Settings 1	Settings 2
	Image) Color Manager	
Red		↓ /}
Green		4/) 4/)
Blue		↓ /▶
Cyan		4/ >
Magenta		↓ /▶
Yellow		4/) 4/)
White		↓/ }
Menu = Return		Scroll 🔺 🔻

Ітем	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.

image Image	Settings 1	Settings 2
Source Projection Aspect Ratio Keystone Digital Zoom Audio Advanced 1 Advanced 2		<br → / Fill 0 4/ 4/
Menu = Exit	Menu Select 🌗	Scroll 🔺 🔻

Ітем	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	
Advanced 1	Press	
Advanced 2	Press	

<u>Audio</u>

Press the **Menu** button to open the **OSD** menu. Press $\blacktriangleleft \triangleright$ to move to the **Settings 1** menu. Press $\blacktriangledown \blacktriangle$ to move to the **Audio** menu and then press **Enter** or \triangleright . Press $\blacktriangledown \blacktriangle$ to move up and down in the **Audio** menu.

😻 Image	Settings 1	Settings 2
	Settings 1 Audio	
Volume		4
Mute		Off
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION
Volume	Press the cursor ◀▶ button to enter and adjust the audio volume.
Mute	Press the cursor ◀► button to enter and turn on or off the speaker.

Advanced 1 Feature

Press the **Menu** button to open the **OSD** menu. Press $\triangleleft \triangleright$ to move to the **Settings 1** menu. Press $\triangleleft \lor$ to move to the **Advanced 1** menu and then press **Enter** or \triangleright . Press $\triangleleft \lor$ to move up and down in the **Advanced 1** menu. Press $\triangleleft \triangleright$ to enter and change values for setting.

image	Settings 1	Settings 2
	Settings 1 Advanced 1	
Language		English
Security Lock		Off
Blank Screen		—
Closed Captioning		Off
Keypad Lock		Off
3D Setting		↓/ >
Menu = Return		Scroll 🔺 🔻

Ітем	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.
Closed Captioning	Press the cursor ◀► button 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. Note : Hold the cursor ▼ button on keypad for 5 seconds to unlock keypad
3D Setting	Press

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



Ітем	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 $\triangleleft \triangleright$ to move to the **Settings 1** menu. Press $\blacktriangle \lor$ to move to the **Advanced 2** menu and then press **Enter** or \triangleright . Press $\blacktriangle \lor$ to move up and down in the **Advanced 2** menu. Press $\triangleleft \triangleright$ to enter and change values for setting.

image	Settings 1	Settings 2
	Settings 1 Advanced 2	
Test Pattern		None
H Image Shift		0
V Image Shift		0
Menu = Return		Scroll 🔺 🔻

Ітем	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.

image 🕅	Settings 1	STS.	Settings 2
		1	
Auto Source			Off
No Signal Power Off (r	nin)		0
Auto Power On			Off
Lamp Mode Normal			
Reset All			
Status 4/>			↓/
Advanced 1			↓/ } ↓/ }
Advanced 2		↓/ }	
Menu = Exit	Menu Select 🜗	Scro	

Ітем	DESCRIPTION
Auto Source	Press the cursor ◀► button to enter and enable or disable automatic source detection.
No Signal 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
Status	Press
Advanced 1	Press
Advanced 2	Press

<u>Status</u>

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



Ітем	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)
Serial Number	Showing serial number of product.

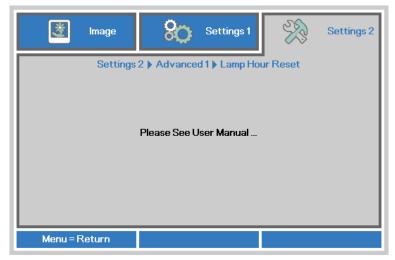
Advanced 1 Feature

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.

👿 Image	Settings 1	R	Settings 2
	Settings 2 Advanced 1	•	
Menu Position			D
Translucent Menu			0%
Low Power Mode			Off
Fan Speed			Normal
Lamp Hour Reset			↓ /▶
Projector ID			00
Network			↓ /▶
Menu = Return		Scro	

Ітем	DESCRIPTION
Menu Position	Press the cursor ◀► button to enter and select different OSD location.
Translucent Menu	Press the cursor ◀► button to enter and select OSD background translucent level.
Low Power Mode	Press the cursor ◀► button 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 32 for more information on <i>Lamp Hour Reset</i> .
Projector ID	Press the cursor ◀► button to enter and adjust a two digit projector ID from 00 through 98.
Network	Press

Lamp Hour Reset



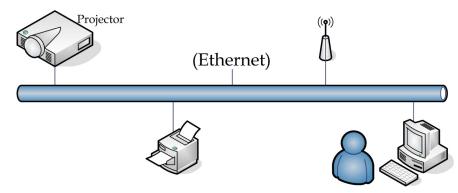
Please refer to *Resetting the Lamp* on page 47 to reset the lamp hour counter.

Network

😻 Image	80	Settings 1	R	Settings 2
Sett	ings 2 🕨 Adva	anced 1 🕨 Netv	vork	
Network State				Connect
DHCP				Off
IP Address 255.255.255.2		5.255.255		
Subnet Mask 255.255.25		5.255.255		
Gateway	Gateway 255.255.255		5.255.255	
DNS			255.25	5.255.255
Apply				↓ /▶
Menu = Return			Sere	

Ітем	DESCRIPTION
Network State	Displays the network connection status.
DHCP	Press ◀▶ to turn DHCP On or Off. Note: If you select DHCP Off, complete the IP Address, Subnet Mask, Gateway, and DNS fields.
IP Address	Enter a valid IP address if DHCP is turned off.
Subnet Mask	Enter a valid Subnet Mask if DHCP is turned off.
Gateway	Enter a valid Gateway address if DHCP is turned off.
DNS	Enter a valid DNS name if DHCP is turned off.
Apply	Press

LAN_RJ45



Wired LAN Terminal functionalites

Remote control and monitoring of a projector from a PC (or Laptop) via wired LAN is also possible. Compatibility with Crestron / AMX (Device Discovery) / Extron control boxes enables not only collective projector management on a network but also management from a control panel on a PC (or Laptop) browser screen.

- Crestron is a registered trademark of Crestron Electronics, Inc. of the United States. *
- ★ Extron is a registered trademark of Extron Electronics, Inc. of the United States.
- * AMX is a registered trademark of AMX LLC of the United States.
- PJLink applied for trademark and logo registration in Japan, the United States of America, and ★ other countries by JBMIA.

Supported External Devices

This projector is supported by the specified commands of the Crestron Electronics controller and related software (ex, RoomView ®).

http://www.crestron.com/

This projector is supported by AMX (Device Discovery). http://www.amx.com/

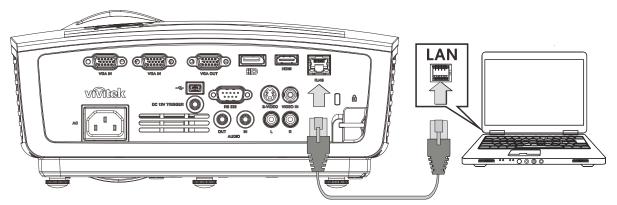
This projector is compliant to support Extron device(s) for reference. http://www.extron.com/

This projector supports all commands of PJLink Class1 (Version 1.00). http://pjlink.jbmia.or.jp/english/

For more detail of information about the diverse types of external devices which can be connected to the LAN/RJ45 port and remote/control the projector, as well as the related control commands supporting for each external device, kindly please get contact with the Support-Service team directly.

<u>LAN_RJ45</u>

1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (Laptop).



2. On the PC (Laptop), select Start \rightarrow Control Panel \rightarrow Network Connections.



3. Right-click on Local Area Connection, and select Properties.

🏂 Network Connecti	ons		_ 🗆 ×	
File Edit View F	avorites Tools	Adva 🎽 💮 Back	. * 👋 🥂	
Address 🛸 Network C	onnections		💌 🄁 Go	
LAN or High-Speed	Internet			
Local Area Connection	Disable Status Repair Bridge Connect Create Shortcu Delete Rename			
Wizard	Properties			
Wizard Properties Image: State of the				

- 4. In the Properties window, select the General tab, and select Internet Protocol (TCP/IP).
- 5. Click **Properties**.

Local Area Connection Properties	? ×
General Advanced	
Connect using:	
Broadcom NetXtreme 57xx Gigabit Cc	onfigure
This connection uses the following items:	
🗹 틙 QoS Packet Scheduler	
Retwork Monitor Driver	
Internet Protocol (TCP/IP)	
I <u>n</u> stall Uninstall Pr	operties
┌ Description	
Transmission Control Protocol/Internet Protocol. The wide area network protocol that provides communic across diverse interconnected networks.	
Show icon in notification area when connected	
V Notify me when this connection has limited or no co	onnectivity
OK	Cancel

6. Click Use the following IP address and fill in the IP address and Subnet mask, then click OK.

nternet Protocol (TCP/IP) Propertie	s ?)			
General				
	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
O <u>O</u> btain an IP address automatical	y.			
• Use the following IP address:				
IP address:	10 . 10 . 10 . 99			
S <u>u</u> bnet mask:	255 . 255 . 255 . 0			
Default gateway:				
C Obtain DNS server address autor	natically			
Use the following DNS server add	fresses:			
Preferred DNS server:				
Alternate DNS server:	· · ·			
	Adyanced			
	OK Cancel			

- 7. Press the Menu button on the projector.
- 8. Select Settings2 \rightarrow Advanced1 \rightarrow Network
- 9. After getting into Network, input the following:
 - ▶ DHCP: Off
 - ▶ IP Address: 10.10.10.10
 - Subnet Mask: 255.255.255.0
 - ▶ Gateway: 0.0.0.0
 - ▶ DNS Server: 0.0.0.0

Open a web browser

(for example, Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher).

🖉 Navigatio	n Canceled - Windows Internet Explorer	
00-	e http://10.10.10/	•
🚖 Favorites	🖉 Navigation Canceled	
1	Navigation to the webpage was canceled	
	What you can try:	
	Refresh the page.	

- 11. In the Address bar, input the IP address: 10.10.10.10.

The projector is setup for remote management. The LAN/RJ45 function displays as follows.

vivilek		
Vivid Color, Vivid Life		
Projector Info	Model Name	
		System
Alert Mail Settings	System Status	Power On
Crestron	Display Source	No Source
	Lamp Hours	2
	Display Mode	Presentation
	Error Status	No Error
		LAN Status
	IP address	10.10.10.10
	Subnet mask	255.255.0.0
	Default gateway	0.0.0.0
	DNS Server	0.0.0.0
	MAC address	
		Version
	LAN Version	
	F/W Version	

Power	Vol -	Mute	Vol +	
SourceList				
				Auto
				Enter
				V Source
Freeze	e Contra	ast Brightness	5 Color	
CRESTRON				Expansion Options
Crestron Control		Projector		Expansion Options
Crestron Control	Projector Name	Projector		User Password
	Projector Name Location		Passwo	User Password
IP Address		PJ01	Passwc Confirm	User Password
IP Address	Location Assigned To	PJ01 RM01 Sir Set	_	User Password
IP Address IP ID Control Port	Location Assigned To Network Config	PJ01 RM01 Sir Sir DHCP Enabled	_	User Password Usr Enabled rd ed Usr Set
IP Address IP ID Control Port	Location Assigned To Network Config IP Address	PJ01 RM01 Sir Set DHCP Enabled 10.10.10.10	_	User Password Usr Enabled rd ed
IP Address IP ID Control Port	Location Assigned To Network Config IP Address Subnet Mask	PJ01 RM01 Sir DHCP Enabled 10.10.10.10 255.255.255.0	Confirm	User Password
IP Address IP ID Control Port	Location Assigned To Network Config IP Address Subnet Mask Default Gateway	PJ01 RM01 Sir Set DHCP Enabled 10.10.10 255.255.255.0 0.0.0	Confirm	User Password
IP Address IP ID Control Port	Location Assigned To Network Config IP Address Subnet Mask	PJ01 RM01 Sir Set DHCP Enabled 10.10.10 255.255.255.0 0.0.0	Confirm	User Password Usr Enabled Usr Set Admin Password Adm Enabled
IP Address IP ID Control Port	Location Assigned To Network Config IP Address Subnet Mask Default Gateway	PJ01 RM01 Sir Set DHCP Enabled 10.10.10 255.255.255.0 0.0.0	Confirm	User Password

CATEGORY	Ітем	INPUT-LENGTH
	IP Address	15
Crestron Control	IP ID	3
	Port	5
	Projector Name	10
Projector	Location	10
	Assigned To	10
	DHCP (Enabled)	(N/A)
	IP Address	15
Network Configuration	Subnet Mask	15
	Default Gateway	15
	DNS Server	15
	Enabled	(N/A)
User Password	New Password	10
	Confirm	10
	Enabled	(N/A)
Admin Password	New Password	10
	Confirm	10

Tools Exit

For more information, please visit http://www.crestron.com.

Preparing Email Alerts

- 1. Make sure that user can access the homepage of LAN RJ45 function by web browser (for example, Microsoft Internet Explorer v6.01/v8.0).
- 2. From the Homepage of LAN/RJ45, click Alert Settings.

vivitek		
Projector Info	Model Name	
Alert Mail Settings		System
Alert Mail Settings	System Status	Power On
Crestron	Display Source	No Source
	Lamp Hours	2
	Display Mode	Presentation
	Error Status	No Error
		LAN Status
	IP address	10.10.10.10
	Subnet mask	255.255.0.0
	Default gateway	0.0.0.0
	DNS Server	0.0.0.0
	MAC address	
		Version
	LAN Version	
	F/W Version	

3. By default, these input boxes in **Alert Settings** are blank.

Projector Info Alert Mail Settings Crestron	Send E-Mail Enter the appropriate settings in the fields below: (Your SMTP server may not require a user name or password.)
	SMTP Server: Port: 25 User Name:
	CC: Mail Address Apply E-mail Alert Options: Fan lock : V Over_Heat: V Case Open: Lamp Fail: V Lamp Hours Over: Filter Hours Over: W Weekly Report: Alert Option Apply Send Test Mail

- 4. For Sending alert mail, input the following:
 - . The **SMTP** field is the mail server for sending out email (SMTP protocol). This is a required field.
 - . The **To** field is the recipient's email address (for example, the projector administrator). This is a required field.
 - . The **Cc** field sends a carbon copy of the alert to the specified email address. This is an optional field (for example, the projector administrator's assistant).
 - . The **From** field is the sender's email address (for example, the projector administrator). This is a required field.
 - . Select the alert conditions by checking the desired boxes.

Projector Info Alert Mail Settings Crestron	Enter the ap	E-Mail propriate settings i server may not req	n the fields below: uire a user name or password.)
	Use	r Name: S	nail.corp.com Port: 25 Bender.US
	Fro To:	e e e e e e e e e e e e e e e e e e e	Mail Server Apply end@mail.corp.com
		nail Alert Options n lock :	wr2@mail.corp.com Mail.Address.Apply :: V Over_Heat: V
	Lar	se Open: mp Hours Over: eekly Report:	Lamp Fail: Filter Hours Over: Alert Option Apply
			Send Test Mail

Note: Fill in all fields as specified. User can click **Send Test Mail** to test what setting is correct. For successful sending an e-mail alert, you must select alert conditions and enter a correct e-mail address.

RS232 by Telnet Function

Besides projector connected to RS232 interface with "Hyper-Terminal" communication by dedicated RS232 command control, there is alternative RS232 command control way, so called "RS232 by TELNET" for LAN/RJ45 interface.

Quick Start-Guide for "RS232 by TELNET"

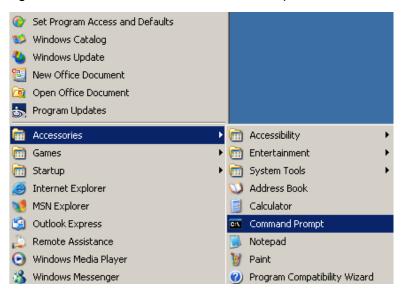
Check and get the IP-Address on OSD of the projector.

Make sure that laptop/PC can access the web-page of the projector.

Make sure that "Windows Firewall" setting to be disabled in case of "TELNET" function filtering out by laptop/PC.



Start => All Programs => Accessories => Command Prompt



Input the command format like the below:

telnet ttt.xxx.yyy.zzz 23 ("Enter" key pressed)

(ttt.xxx.yyy.zzz: IP-Address of the projector)

If Telnet-Connection ready, and user can have RS232 command input, then "Enter" key pressed, the RS232 command will be workable.

How to have TELNET enabled in Windows VISTA / 7

By default installation for Windows VISTA, "TELNET" function is not included. But end-user can have it by way of "Turn Windows features On or Off" to be enabled.

Open "Control Panel" in Windows VISTA

		x
😋 🕞 🗢 🧾 🕨 Control Panel 🕨		Q
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		
Control Panel Home Classic View	System and Maintenance Get started with Windows Back up your computer	•
	Security Check for updates Check this computer's security status Pirewall Appearance and Personalization Change desktop background Customize colors Adjust screen resolution	
	Vetwork and Internet View network status and tasks Set up file sharing View file sharing View file sharing	E
	Hardware and Sound Play CDs or other media automatically Printer Mouse Hase of Access Let Windows suggest settings Optimize visual display	
Recent Tasks Callow a program through Windows Firewall Callow Turn Windows Firewall on or	Programs Uninstall a program Change startup programs	
off Printer	Mobile PC Change battery settings Adjust commonly used mobility	

Open "Programs"

ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elţ			
Tasks	Uninstall or change a program		
View installed updates	offinistan of change a program		
Get new programs online at Windows Marketplace	To uninstall a program, select it from the list a	nd then click "Uninstall", "Change", or "Re	pair".
	🖓 Organize 🗸 📕 Views 🗸		
View purchased software (digital locker)	Name	Publisher	Installed
Turn Windows features on or	Ez 7-Zip 4.57		11/20/2
off	人 Acrobat.com	Adobe Systems Incorporated	11/21/2
	🚾 Adobe AIR	Adobe Systems Inc.	11/21/2
	💋 Adobe Flash Player 10 Plugin	Adobe Systems Incorporated	12/23/2
	🗾 Adobe Flash Player ActiveX	Adobe Systems Incorporated	9/10/20
	Adobe Reader 9	Adobe Systems Incorporated	11/21/2
	🛃 Apple Software Update	Apple Inc.	11/26/2
	AVG Free 8.0	AVG Technologies	2/5/200
	Conexant HDA D330 MDC V.92 Modem		9/10/20
	🔜 Dell Touchpad	Alps Electric	9/10/20
	BivX Codec	DivX, Inc.	11/20/2
	💌 DivX Converter	DivX, Inc.	11/20/2
	HI-TECH PICC-Lite V9.60PL1	HI-TECH Software	11/20/2
	InfraRecorder		1/23/20
	Intel(R) PROSet/Wireless Software	Intel Corporation	9/10/20
	Internet Explorer Developer Toolbar	Microsoft	11/24/2
	Java DB 10.4.1.3	Sun Microsystems, Inc	11/20/2
	E 1000 DD 10.4.1.5	our microsystems, and	11) 20)

Select "Turn Windows features on or off" to open

🔄 Windows Features	x			
Turn Windows features on or off	2			
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.				
🔲 🖟 RIP Listener	<u>~</u>			
🔲 🎍 Simple TCPIP services (i.e. echo, daytime etc)				
🕀 🔲 📙 SNMP feature				
🔽 🎍 Tablet PC Optional Components				
🔽 🔐 Telnet Client				
🔲 📙 Telnet Server				
☑ ↓ TFTP Client				
Windows DFS Replication Service				
🔽 🎍 Windows Fax and Scan	=			
🛛 📙 Windows Meeting Space				
🕀 🔲 📙 Windows Process Activation Service				
	Ŧ			
OK Cancel				

Have "Telnet Client" option checked, then press "OK" button.

1	Microsoft Windows
	Please wait while the features are configured. This might take several minutes.
	Cancel

Specsheet for "RS232 by TELNET" :

- 1. Telnet: TCP
- 2. Telnet port: 23

(for more detail, kindly please get contact with the service agent or team)

- 3. Telnet utility: Windows "TELNET.exe" (console mode)
- 4. Disconnection for RS232-by-Telnet control normally: Close Windows Telnet utility directly after TELNET connection ready
- 5. Limitation 1 for Telnet-Control: there is less than 50 bytes for successive network payload for Telnet-Control application.

Limitation 2 for Telnet-Control: there is less than 26 bytes for one complete RS232 command for Telnet-Control.

Limitation 3 for Telnet-Control: Minimum delay for next RS232 command must be more than 200 (ms).

(*, In Windows XP built-in "TELNET.exe" utility, "Enter" key pressed will have "Carriage-Return" and "New-Line" code.)

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.

👹 Image	Settings 1	¥\$	Settings 2
	Settings 2 Advanced 2	•	
Sleep Timer (min)			0
Source Filter			4 /}
Menu = Return		Sero	∥▲▼
Menu – Return		acro	

Ітем	DESCRIPTION
Sleep Timer	Press the cursor ◀► button to enter and set Sleep timer. The projector automatically turns off after the preset period of time.
Source Filter	Press

Source Filter

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



Ітем	DESCRIPTION
HDMI	Press the cursor ◀► button to enter and enable or disable the HDMI source.
DP	Press the cursor ◀► button to enter and enable or disable the DisplayPort source.
VGA1	Press the cursor ◀► button to enter and enable or disable the VGA1 source.
VGA2	Press the cursor ◀► button to enter and enable or disable the VGA2 source.
S-Video	Press the cursor ◀► button to enter and enable or disable the S-Video source.
Composite Video	Press the cursor ◀► button to enter and enable or disable the Composite Video 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.

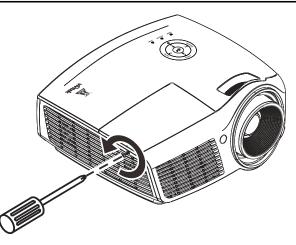
✓! IF A LAMP EXPLODES

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.

Loosen the single screw on the lamp compartment cover.

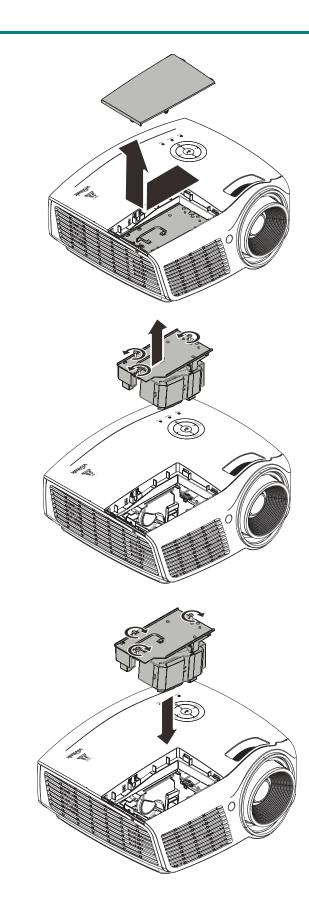


2. Remove the lamp compartment cover.

- **3.** Remove the three screws from the lamp module.
- **4**. Lift the module handle up.
- **5.** Pull firmly on the module handle to remove the lamp module.
- 6. Reverse steps 1 to 5 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.
- 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.

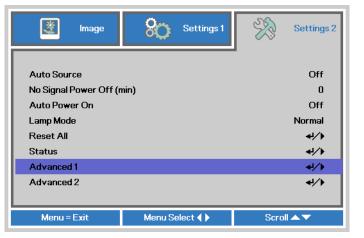


image	Settings 1	- Sto	Settings 2
	Settings 2 Advanced 1	•	
Menu Position			D
Translucent Menu			0%
Low Power Mode			Off
Fan Speed			Normal
Lamp Hour Reset			↔!/ >
Projector ID			00
Network			↓ /▶
Menu = Return		Scro	

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.

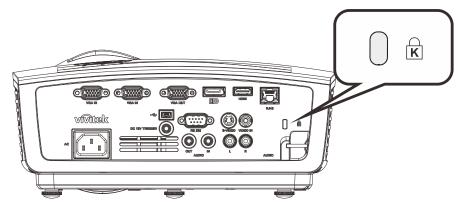
Caution:

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

Using the Kensington[®] Lock & Using the Security Bar

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.

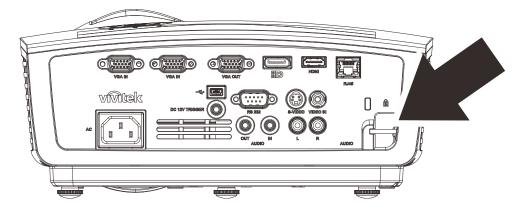


Note:

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*.

Using the Security Bar

In addition to the password protection function and the Kensington lock, the Security Bar helps protect the projector from unauthorized removal. See the following picture.



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	TEMP LED RED
Lamp Ready	ON	OFF	OFF
Start	Flashing	OFF	OFF
Cooling	Flashing	OFF	OFF
Over Temperature	OFF	OFF	ON
T1 error	3 blinks	1 blinks	OFF
Thermal Break Sensor error	4 blinks	OFF	OFF
G794 error	4 blinks	4 blinks	OFF
Lamp fail	5 blinks	OFF	OFF
Ballast temp over	5 blinks	1 blinks	OFF
Ballast circuit short	5 blinks	2 blinks	OFF
Lamp End of lamp life detected	5 blinks	3 blinks	OFF
Lamp did not ignite	5 blinks	4 blinks	OFF
Lamp extinguished during normal opera-	5 blinks	5 blinks	OFF
Lamp extinguished during run-up phase	5 blinks	6 blinks	OFF
Lamp voltage too low	5 blinks	7 blinks	OFF
Ballast fail	5 blinks	8 blinks	OFF
Ballast communication fail	5 blinks	10 blinks	OFF
Ballast over temp	5 blinks	11 blinks	OFF
Restrike lamp fail 1	5 blinks	12 blinks	OFF
Restrike lamp fail 2	5 blinks	13 blinks	OFF
Lamp fail 1	5 blinks	14 blinks	OFF
Lamp fail 2	5 blinks	15 blinks	OFF
Fan 1 error	6 blinks	1 blinks	OFF
Fan 2 error	6 blinks	2 blinks	OFF
Fan 3 error	6 blinks	3 blinks	OFF
Fan 4 error	6 blinks	4 blinks	OFF
Case Open	7 blinks	OFF	OFF
DMD error	8 blinks	OFF	OFF
Color wheel error	9 blinks	OFF	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	D910HD D912HD				
Display type	TI DMD 0.	65" 1080p			
Resolution	1080p 19	20x1080			
Projection distance	1 m~	10 m			
Projection screen size	23.5" ~ 300"				
Projection lens	Manual Focus/Manual Zoom				
Zoom ratio	1.2x				
Vertical keystone	+/- 40 [Degree			
Projection methods	Front, Rear, Desktop	/Ceiling (Rear, Front)			
Data compatibility	VGA, SVGA, XGA, WXGA, SXGA	A, SXGA+, UXGA, WUXGA, Mac			
SDTV/EDTV/ HDTV	480i, 576i, 480p, 576p	o, 720p, 1080i, 1080p			
Video compatibility	NTSC, PA	L, SECAM			
H-Sync	2D: 15, 30~91.4KH	lz / 3D: 101.6KHz			
V-Sync	24~30Hz, 47~120Hz				
Safety certification	FCC-B, cUL, UL, CE, CB, CCC, KC, PCT, CS				
Operation temperature	5° ~ 35°C				
Dimensions	285 mm (W) x 261 mm (D) x 130 mm (H)				
AC Input	AC Universal 100-240V				
Power consumption	290W, <0.5W(Stand By)	330W, <0.5W(Stand By)			
Lamp	240W (Normal) / 190W (Eco)	280W (Normal) / 230W (Eco)			
Audio speaker	10W mono speaker				
	VGA	x 2			
	RJ45 x 1				
	Compo	site x 1			
Input Terminals	S-Vide	eo x 1			
	HDM	ll x 1			
	Display	Port x 1			
	RCA Stereo Audio LR x 1				
Output Terminals	PC Audio jack(3.5mm) x 1				
ouput reminais	VGA x 1				
	RS-2	232C			
Control Terminals	Screen trigger: DC Jack x 1 (D	C12V 200mA output function)			
	USB (Type mini	B) - service only			
Security	Kensington lock	k / Security Bar			

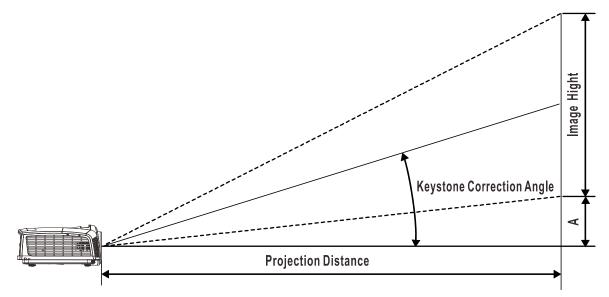
Note: For questions regarding product specifications, please contact your local distributor.

Specifications

Security	Kensington loc	k / Security Bar			
	USB (Type mini	· · ·			
Control Terminals	Screen trigger: DC Jack x 1 (DC12V 200mA output function)				
	RS-2				
Output Terminals	PC Audio jac VGA				
	RCA Stereo Audio LR x 1 PC Audio jack(3.5mm) x 1				
	Display Port x 1				
	HDN				
Input Terminals	S-Vide				
	Compo				
	RJ4	5 x 1			
	VGA	x 2			
Audio speaker	10W mon	, , ,			
Lamp	240W (Normal) / 190W (Eco)	280W (Normal) / 230W (Eco)			
Power consumption	290W, <0.5W(Stand By)	330W, <0.5W(Stand By)			
AC Input	AC Universal 100-240V				
Dimensions	285 mm (W) x 261 mm (D) x 130 mm (H)				
Operation temperature	5° ~ 35°C				
Safety certification	FCC-B, cUL, UL, CE, CB, CCC, KC, PCT, CS				
V-Sync	22-10, 00 011 mi				
H-Sync	2D: 15, 30~91.4KH				
Video compatibility	NTSC, PA				
SDTV/EDTV/ HDTV	480i, 576i, 480p, 576j				
Data compatibility	VGA, SVGA, XGA, WXGA, SXGA				
Projection methods	Front, Rear, Desktop	•			
Vertical keystone	+/- 40 Degree				
Zoom ratio	1.1x	1.2x			
Projection screen size Projection lens	Manual Focus				
Projection distance	25.9" ~				
Resolution	WXGA 1280x800 XGA 1024x768 1.2 m~ 10 m				
Display type	TI DMD 0.65" WXGA	TI DMD 0.55" XGA			

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

Projection Distance vs. Projection Size



Projection Distance and Size Table

D910HD / D912HD						
IMAGE DIAGONAL (INCH)	IMAGE WIDTH (INCH)	IMAGE HIGHT (INCH)	Projection Distance (MM) <u>From</u>	PROJECTION DISTANCE (MM) <u>TO</u>	OFFSET-A (MM)	
60	52.29	29.42	2098.7	2550.3	112.1	
70	61.01	34.32	2448.5	2975.3	130.8	
72	62.75	35.30	2518.4	3060.4	134.5	
80	69.73	39.22	2798.2	3400.4	149.4	
84	73.21	41.18	2938.2	3570.4	156.9	
90	78.44	44.12	3148.0	3825.4	168.1	
96	83.67	47.07	3357.9	4080.5	179.3	
100	87.16	49.03	3497.8	4250.5	186.8	
120	104.59	58.83	4197.4	5100.6	224.1	
135	117.66	66.19	4722.0	5738.2	252.2	
150	130.74	73.54	5246.7	6375.7	280.2	
200	174.32	98.05	6995.6	8501.0	373.6	

DLP Projector—User's Manual

	D865W							
IMAGE DIAGONAL (INCH)	IMAGE WIDTH (INCH)	IMAGE HIGHT (INCH)	PROJECTION DISTANCE (MM) <u>FROM</u>	PROJECTION DISTANCE (MM) <u>TO</u>	OFFSET-A (MM)			
60	50.9	31.8	1990.2	2209.9	113.1			
70	59.4	37.1	2321.9	2578.2	131.9			
72	61.1	38.2	2388.3	2651.9	135.7			
80	67.8	42.4	2653.6	2946.6	150.8			
84	71.2	44.5	2786.3	3093.9	158.3			
90	76.3	47.7	2985.3	3314.9	169.6			
96	81.4	50.9	3184.3	3535.9	180.9			
100	84.8	53.0	3317.0	3683.2	188.5			
120	101.8	63.6	3980.4	4419.8	226.2			
135	114.5	71.5	4478.0	4972.3	254.4			
150	127.2	79.5	4975.5	5524.8	282.7			
200	169.6	106.0	6634.1	7366.4	376.9			

	D867							
IMAGE DIAGONAL (INCH)	IMAGE WIDTH (INCH)	IMAGE HIGHT (INCH)	PROJECTION DISTANCE (MM) <u>FROM</u>	PROJECTION DISTANCE (MM) <u>TO</u>	OFFSET-A (MM)			
60	48	36	1950.7	2340.9	128.0			
70	56	42	2275.8	2731.0	149.4			
72	57.6	43.2	2340.9	2809.0	153.6			
80	64	48	2601.0	3121.2	170.7			
84	67.2	50.4	2731.0	3277.2	179.2			
90	72	54	2926.1	3511.3	192.0			
96	76.8	57.6	3121.2	3745.4	204.8			
100	80	60	3251.2	3901.4	213.4			
120	96	72	3901.4	4681.7	256.0			
135	108	81	4389.1	5266.9	288.0			
150	120	90	4876.8	5852.2	320.0			
200	160	120	6502.4	7802.9	426.7			

Timing Mode Table

Signal	RESOLUTION	H-Sync (KHz)	V-Sync (Hz)	Composite S_Video	COMPONENT	RGB (Analog)	DP/HDMI (DIGITAL)
NTSC	_	15.734	60	0		_	_
PAL/SECAM	_	15.625	50	0	_	_	_
VESA	720 x 400	31.5	70.1	—	—	0	0
	720 x 400	37.9	85.04	—		0	0
	640 x 480	31.5	60	_	_	0	0
	640 x 480	37.9	72.8	—	—	0	0
	640 x 480	37.5	75	—	—	0	0
	640 x 480	43.3	85	—	—	0	0
	800 x 600	35.2	56.3	—	—	0	0
	800 x 600	37.9	60.3	—	—	0	0
	800 x 600	46.9	75	—	—	0	0
	800 x 600	48.1	72.2	—	_	0	0
	800 x 600	53.7	85.1	—	—	0	0
	800 x 600	76.3	120	—	—	0	0
	1024 x 768	48.4	60	_	_	0	0
	1024 x 768	56.5	70.1	_	_	0	0
	1024 x 768	60	75	—	—	0	0
	1024 x 768	68.7	85	—	—	0	0
	1024 x 768	97.6	120	—	—	0	0
	1152 x 864	67.5	75	—	—	0	0
	1280 x 720	45	60	_	_	0	0
	1280 x 720	90	120	_	_	0	0
	1280 x 768	47.4	60	—	—	0	0
	1280 x 768	47.8	59.9	—	—	0	0
	1280 x 800	49.7	59.8	—	—	0	0
	1280 x 800	62.8	74.9	—	—	0	0
	1280 x 800	71.6	84.9	—	—	0	0
	1280 x 800	101.6	119.9	—	—	0	0
	1280 x 1024	64	60	—	—	0	0
	1280 x 1024	80	75	_	_	0	0
	1280 x 1024	91.1	85	—	_	0	0
	1280 x 960	60	60	_	_	0	0
	1280 x 960	85.9	85	—	_	0	0
	1366 x 768	47.7	60	—	_	0	0
	1400 x 1050	65.3	60	_	_	0	0

DLP Projector—User's Manual

Signal	RESOLUTION	H-Sync (KHz)	V-Sync (Hz)	Composite S_Video	COMPONENT	RGB (Analog)	DP/HDMI (DIGITAL)
	1440 x 900	55.9	60	_	—	0	0
	1440 x 900	70.6	75	_	_	0	0
	1600 x1200	75	60	—	—	0	0
	1680 x 1050	64.7	59.9	—	—	0	0
	1680 x 1050	65.3	60	—	—	0	0
	1920 x 1200	74	60	—	—	0	0
	1920 x 1080	67.5	60	—	—	0	0
	640 x 480	35	66.7		_	0	0
Apple	832 x 624	49.7	74.5	_	—	0	0
Macintosh	1024 x 768	60.2	74.9	_	—	0	0
	1152 x 870	68.7	75.1	—	—	0	0
SDTV	480i	15.734	60	—	0	—	0
3010	576i	15.625	50		0	_	0
EDTV	576p	31.3	50		0	_	0
	480p	31.5	60	—	0	—	0
	720p	37.5	50	_	0	—	0
	720p	45	60	—	0	—	0
	1080i	33.8	60	—	0	—	0
	1080i	28.1	50	—	0	—	0
HDTV	1080p	27	24	—	0	—	0
	1080p	28	25		0	—	0
	1080p	33.7	30	_	0	—	0
	1080p	56.3	50	—	0	—	0
	1080p	67.5	60	—	0	—	0

O: Frequency supported

— : Frequency not supported

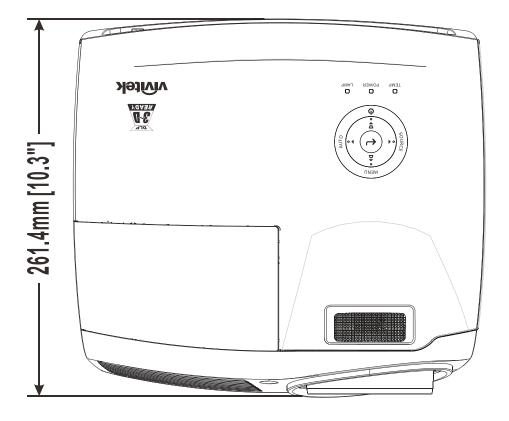
Resolution others than native resolution may be display with uneven size of text or line

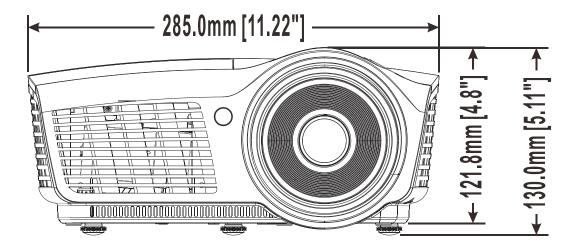
★ The color of mean Displayable only. (4:3 only)

★The color of ____mean may have a little noise is acceptable. Because video mode sync don't auto adjustment.

 \star 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, CE, C-tick, CCC, KC, PSE, PCT, CS, NOM.

APPENDIX I

RS-232C Protocol

RS232 Setting

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

Minimum delay for next command: 1ms

Control Command Structure

	Header code	Command code	Data code	End code
HEX	56H	Command	Data	0Dh
ASCII	'V'	Command	Data	CR

Operation Command

Note:

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	<u>n=xxxxxx@xxxx.xxx.</u> <u>xx</u>	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:Cold 1:Normal 2:Warm	Pn/F
VXXS0106n	56h Xh Xh 53h 30h 31h 30h 36h nh 0Dh	Set Color Temperature	0:Cold 1:Normal 2:Warm	P/F
VXXG0107	56h Xh Xh 47h 30h 31h 30h 37h 0Dh	Get Gamma	0:1.8 1:2.0 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 1:2.0 2:2.2 3:2.4 4:B&W 5:Linear	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
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		P/F
VXXS0210	56h Xh Xh 53h 30h 32h 31h 30h 0Dh	Select DP		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:Display Port 10:HDMI 2	Pn/F

VXXG0301 56h Xh Xh 47h 30h 33h 30h 31h 0Dh Get Scaling 0.Fill 1.4.3 2.1.69 3.1.61ter Box 4.Native os 52.35:1 Pn/F VXXS0301n 56h Xh Xh 53h 30h 33h 30h 31h nh 0Dh Set Scaling 0.Fill 1.4.3 2.1.69 3.1.61ter Box 4.Native os 52.35:1 Pr/F VXXS0302 56h Xh Xh 47h 30h 33h 30h 32h 0Dh Blank Pn/F VXXS0302 56h Xh Xh 53h 30h 33h 30h 32h nh 0Dh Blank Pr/F VXXS0303 56h Xh Xh 53h 30h 33h 30h 32h nh 0Dh Auto Keystone On Pn/F VXXS0304 56h Xh Xh 53h 30h 33h 30h 33h 0Dh Auto Keystone On Pr/F VXXS0305 56h Xh Xh 53h 30h 33h 30h 34h 0Dh Freeze On Pn/F VXXS0306 56h Xh Xh 53h 30h 33h 30h 34h 0Dh Freeze On Pn/F VXXS0305 56h Xh Xh 53h 30h 33h 30h 36h 0Dh Treble n=0~10 Pn/F VXXG0306 56h Xh Xh 53h 30h 33h 30h 36h 0Dh Treble n=0~16 Pn/F VXXG0307 56h Xh Xh 53h 30h 33h 30h 38h 0Dh Projection Mode 0.Front 1.Rear 2.Ceiling 2.Ceiling VXXG0308 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 0.Front 1.Rear 2.Ceiling <th></th> <th>Comm</th> <th>nand Group 03</th> <th></th> <th></th>		Comm	nand Group 03		
VXXG0301 56h Xh Xh 47h 30h 33h 30h 31h 0Dh Get Scaling 14:3 2:16:9 3:Letter Box 4:Native 52:35:1 Pn/F VXXS0301n 56h Xh Xh 53h 30h 33h 30h 31h nh 0Dh Set Scaling 0Fill 14:3 2:16'9 3:Letter Box 4:Native 52:35:1 Pn/F VXXS0302 56h Xh Xh 53h 30h 33h 30h 32h 0Dh Blank Pn/F VXXS03030 56h Xh Xh 53h 30h 33h 30h 32h 0Dh Alto Keystone On Pn/F VXXS03020 56h Xh Xh 53h 30h 33h 30h 33h 0Dh Auto Keystone On Pn/F VXXG0303 56h Xh Xh 53h 30h 33h 30h 33h 0Dh Auto Keystone On Pn/F VXXG0304 56h Xh Xh 53h 30h 33h 30h 33h 0Dh Freeze On Pn/F VXXG0305 56h Xh Xh 53h 30h 33h 30h 35h 0Dh Volume n=0~10 Pn/F VXXG0306 56h Xh Xh 53h 30h 33h 30h 35h 0Dh Volume n=0~16 Pn/F VXXG0306 56h Xh Xh 53h 30h 33h 30h 37h 0Dh Bass n=0~16 Pn/F VXXG0307 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 0.Front 1.Rear 2.Ceiling 3.Rear+Ceiling Pr/F VXXG0307 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode	ASCII	HEX	Function	Description	Return Value
VXXS0301n 56h Xh Xh 53h 30h 33h 30h 31h nh 0Dh Set Scaling 11-43 3 Letter Box 3 Letter	VXXG0301	56h Xh Xh 47h 30h 33h 30h 31h 0Dh	Get Scaling	1:4:3 2:16:9 3:Letter Box 4:Native	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 0Dh Auto Keystone On Pn/F VXXS0303n 56h Xh Xh 53h 30h 33h 0Dh 34h 0Dh Freeze On Pn/F VXXS0304n 56h Xh Xh 53h 30h 33h 0Dh 34h 0Dh Freeze On Pn/F VXXS0305n 56h Xh Xh 53h 30h 33h 0Dh 35h 0Dh Volume n=0~10 Pn/F VXXS0306n 56h Xh Xh 53h 30h 33h 0Dh 35h 0Dh Volume n=0~16 Pn/F VXXS0306n 56h Xh Xh 47h 30h 33h 30h 36h nb 0Dh Treble n=0~16 Pn/F VXXS0307n 56h Xh Xh 47h 30h 33h 30h 37h 0Dh Bass n=0~16 Pn/F VXXS0308n 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 1:Rear 2:Ceiling 3:Rear+Ceiling Pn/F VXXS0309n 56h Xh Xh 47h 30h 33h 30h 38h nb 0Dh Projection Mode 1:Rear 2:Ceiling Pn/F VXXS0309n 56h Xh Xh 53h 30h 33h 30h 38h nb 0Dh Set vertical keystone value n=-40~+40 Pn/F VXXS0310n 56h Xh Xh	VXXS0301n	56h Xh Xh 53h 30h 33h 30h 31h nh 0Dh	Set Scaling	1:4:3 2:16:9 3 Letter Box 4:Native	P/F
VXXG0303 56h Xh Xh 47h 30h 33h 30h 33h 0Dh Auto Keystone On Pn/F VXXG0303 56h Xh Xh 53h 30h 33h 0Dh 33h 0Dh Auto Keystone On Pr/F VXXG0304 56h Xh Xh 47h 30h 33h 30h 34h 0Dh Freeze On Pn/F VXXG0304 56h Xh Xh 47h 30h 33h 30h 34h 0Dh Freeze On Pn/F VXXG0305 56h Xh Xh 47h 30h 33h 30h 35h 0Dh Volume n=0-10 Pn/F VXXG0305 56h Xh Xh 47h 30h 33h 30h 35h 0Dh Volume n=0-16 Pn/F VXXS0306 56h Xh Xh 53h 30h 33h 30h 35h nh 0Dh Treble n=0-16 Pn/F VXXS0307 56h Xh Xh 47h 30h 33h 30h 37h nDDh Bass n=0-16 Pn/F VXXS0307 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 1:Rear 2:Celling 3:Rear+Celling Pn/F VXXS0308 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 1:Rear 2:Celling 3:Rear+Celling Pn/F VXXS0309 56h Xh Xh 47h 30h 33h 30h 39h 0Dh Set vertical keystone value n=-40-+40 Pn/F VXXS0310 56h Xh Xh 47h 30h 33h 30h 39h 0Dh Set vertical keystone value n=-20-+20 Pn/F	VXXG0302	56h Xh Xh 47h 30h 33h 30h 32h 0Dh	Blank		Pn/F
VXXS0303n 56h Xh Xh 53h 30h 33h 00h 33h nh 0Dh Auto Keystone On P/F VXXS0304 56h Xh Xh 47h 30h 33h 30h 34h 0Dh Freeze On Pn/F VXXS0304 56h Xh Xh 47h 30h 33h 30h 34h nh 0Dh Freeze On Pn/F VXXS0305 56h Xh Xh 47h 30h 33h 30h 35h 0Dh Volume n=0~10 Pn/F VXXS0306n 56h Xh Xh 47h 30h 33h 30h 36h 0Dh Treble n=0~16 Pn/F VXXS0306n 56h Xh Xh 47h 30h 33h 30h 36h 0Dh Treble n=0~16 Pn/F VXXS0307 56h Xh Xh 47h 30h 33h 30h 37h 0Dh Bass n=0~16 Pn/F VXXS0307 56h Xh Xh 47h 30h 33h 30h 37h n0Dh Bass n=0~16 Pr/F VXXS0308 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 0.Front 1.Rear 1:Rear 2:Ceiling 3:Rear+Ceiling P/F 2.Ceiling 2.Rear+Ceiling VXXS0309 56h Xh Xh 47h 30h 33h 30h 38h n0Dh Projection Mode 1.Rear 2.Ceiling 3.Rear+Ceiling VXXS0309 56h Xh Xh 47h 30h 33h 30h 39h n0Dh Set vertical keystone n=-40~+40 P/F	VXXS0302n	56h Xh Xh 53h 30h 33h 30h 32h nh 0Dh	Blank		P/F
VXXG0304 56h Xh Xh 47h 30h 33h 30h 34h 0Dh Freeze On Pn/F VXXG0304 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 VXXG0305 56h Xh Xh 47h 30h 33h 30h 35h 0Dh Volume n=0~16 Pn/F VXXG0306 56h Xh Xh 47h 30h 33h 30h 36h 0Dh Treble n=0~16 Pn/F VXXG0307 56h Xh Xh 47h 30h 33h 30h 37h 0Dh Bass n=0~16 Pn/F VXXG0307 56h Xh Xh 47h 30h 33h 30h 37h 0Dh Bass n=0~16 Pn/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 37h n0Dh Bass n=0~16 Pn/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 37h n0Dh Bass n=0~16 Pn/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 1.7.Rear 2./Ceiling 3.7.Rear+Ceiling VXXS0308n 56h Xh Xh 47h 30h 33h 30h 39h 0Dh Set vertical keystone value n=-40~+40 Pn/F VXXS0310 56h Xh Xh 47h 30h 33h 31h 30h 0Dh Set vertical keystone value n=-20~+20 Pn/F <td>VXXG0303</td> <td>56h Xh Xh 47h 30h 33h 30h 33h 0Dh</td> <td>Auto Keystone On</td> <td></td> <td>Pn/F</td>	VXXG0303	56h Xh Xh 47h 30h 33h 30h 33h 0Dh	Auto Keystone 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 VXXG0305 56h Xh Xh 47h 30h 33h 30h 35h 0Dh Volume n=0~10 P/F VXXG0306 56h Xh Xh 47h 30h 33h 30h 36h 0Dh Treble n=0~16 Pn/F VXXG0307 56h Xh Xh 47h 30h 33h 30h 36h n0Dh Treble n=0~16 Pn/F VXXG0307 56h Xh Xh 47h 30h 33h 30h 37h 0Dh Bass n=0~16 Pn/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 37h n0Dh Bass n=0~16 Pn/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 0.Front 1.Rear 2.Ceiling 3.Rear+Ceiling Pn/F VXXG0309 56h Xh Xh 47h 30h 33h 30h 38h n0Dh Projection Mode 0.Front 1.Rear 2.Ceiling 3.Rear+Ceiling Pn/F VXXS0309n 56h Xh Xh 47h 30h 33h 30h 39h 0Dh Set vertical keystone value n=-40~+40 Pn/F VXXS0310 56h Xh Xh 47h 30h 33h 31h 30h 0Dh Set vertical keystone value n=-20~+20 Pn/F VXXS0311 56h Xh Xh 47h 30h 33h 31h 31h 0Dh Adjust	VXXS0303n	56h Xh Xh 53h 30h 33h 30h 33h nh 0Dh	Auto Keystone On		P/F
VXXG0305 56h Xh Xh 47h 30h 33h 30h 35h 0Dh Volume n=0~10 Pn/F VXXG0305 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 VXXG0307 56h Xh Xh 47h 30h 33h 30h 36h nh 0Dh Treble n=0~16 Pn/F VXXG0307 56h Xh Xh 47h 30h 33h 30h 37h 0Dh Bass n=0~16 Pn/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 37h nh 0Dh Bass n=0~16 Pn/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 1:Rear 2:Ceiling 3:Rear+Ceiling Pn/F VXXG0309 56h Xh Xh 47h 30h 33h 30h 39h 0Dh Set vertical keystone value n=-40~+40 Pn/F VXXS0309n 56h Xh Xh 47h 30h 33h 30h 39h n0Dh Set vertical keystone value n=-20~+20 Pn/F VXXS0310 56h Xh Xh 47h 30h 33h 31h 30h 0Dh Set vertical keystone value n=-20~+20 Pn/F VXXS0311 56h Xh Xh 47h 30h 33h 31h 31h 0Dh Adjust the zoom n=-10~+10 Pn/F VXXS0311 56h Xh Xh 47h 30h 33h 31h 31h 0Dh	VXXG0304	56h Xh Xh 47h 30h 33h 30h 34h 0Dh	Freeze On		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 VXXG0307 56h Xh Xh 47h 30h 33h 30h 36h nh 0Dh Treble n=0~16 Pn/F VXXG0307 56h Xh Xh 47h 30h 33h 30h 37h n0Dh Bass n=0~16 Pn/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 37h n0Dh Bass n=0~16 P/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling Pn/F VXXG0309 56h Xh Xh 47h 30h 33h 30h 38h n0Dh Projection Mode 1:Rear 2:Ceiling 3:Rear+Ceiling Pr/F VXXG0309 56h Xh Xh 47h 30h 33h 30h 39h n0Dh Set vertical keystone value n=-40~+40 Pn/F VXXG0310 56h Xh Xh 47h 30h 33h 31h 30h n0Dh Set vertical keystone value n=-20~+20 Pn/F VXXG0311 56h Xh Xh 47h 30h 33h 31h 30h n0Dh Set horizontal keystone value n=-20~+20 Pn/F VXXG0311 56h Xh Xh 47h 30h 33h 31h 30h n0Dh Set horizontal keystone value n=-20~+20 Pn/F VXXG0311	VXXS0304n	56h Xh Xh 53h 30h 33h 30h 34h nh 0Dh	Freeze On		P/F
VXXG0306 56h Xh Xh 47h 30h 33h 30h 36h 0Dh Treble n=0~16 Pn/F VXXG0307 56h Xh Xh 53h 30h 33h 30h 36h n0Dh Treble n=0~16 P/F VXXG0307 56h Xh Xh 47h 30h 33h 30h 37h 0Dh Bass n=0~16 Pn/F VXXG0307 56h Xh Xh 53h 30h 33h 30h 37h n0Dh Bass n=0~16 Pn/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 37h n0Dh Bass n=0~16 P/F VXXG0308 56h Xh Xh 47h 30h 33h 30h 38h 0Dh Projection Mode 0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling Pn/F VXXG0309 56h Xh Xh 47h 30h 33h 30h 38h n0Dh Projection Mode 0:Front 1:Rear 2:Ceiling Pr/F VXXG0309 56h Xh Xh 47h 30h 33h 30h 39h 0Dh Set vertical keystone value n=-40~+40 Pn/F VXXG0310 56h Xh Xh 47h 30h 33h 31h 30h 0Dh Set vertical keystone value n=-20~+20 Pn/F VXXG0311 56h Xh Xh 47h 30h 33h 31h 30h nDDh Set horizontal keystone value n=-20~+20 Pn/F VXXG0312 56h Xh Xh 47h 30h 33h 31h 31h nDDh Adjust the zoom n=-10~+10 P/F VXXG0312 56h Xh Xh 47h 30h 3	VXXG0305	56h Xh Xh 47h 30h 33h 30h 35h 0Dh	Volume	n=0~10	Pn/F
VXXS0306n56h Xh Xh 53h 30h 33h 30h 36h nh 0DhTreble $n=0-16$ P/F VXXG030756h Xh Xh 47h 30h 33h 30h 37h n0DhBass $n=0-16$ Pn/F VXXG030756h Xh Xh 53h 30h 33h 30h 37h n0DhBass $n=0-16$ P/F VXXG030856h Xh Xh 53h 30h 33h 30h 37h n0DhBass $n=0-16$ P/F VXXG030856h Xh Xh 47h 30h 33h 30h 38h 0Dh $Projection Mode$ $0:Front$ $1:Rear$ $2:Ceiling$ VXXG030956h Xh Xh 53h 30h 33h 30h 38h n0Dh $Projection Mode$ $0:Front$ $1:Rear$ $2:Ceiling$ VXXG030956h Xh Xh 47h 30h 33h 30h 38h n0Dh $Projection Mode$ $n=-40-+40$ Pn/F VXXS0309n56h Xh Xh 47h 30h 33h 30h 39h 0DhSet vertical keystone value $n=-40-+40$ Pn/F VXXS031056h Xh Xh 47h 30h 33h 31h 30h 0DhSet vertical keystone value $n=-20-+20$ Pn/F VXXG031156h Xh Xh 47h 30h 33h 31h 30h n0DhSet horizontal keystone value $n=-20-+20$ Pn/F VXXG031256h Xh Xh 47h 30h 33h 31h 31h 0DhAdjust the zoom $n=-10-+10$ Pn/F VXXG031356h Xh Xh 47h 30h 33h 31h 32h n0DhAdjust the focus $n=-20-+20$ Pn/F VXXS0313n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the focus $n=-20-+20$ Pn/F VXXG031356h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shift $n=-20-+20$ Pn/F VXXG031456h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the focus $n=-20-+20$ Pn/F VXXG031356h Xh Xh 47h 30h 33h 31h 33h	VXXS0305n	56h Xh Xh 53h 30h 33h 30h 35h nh 0Dh	Volume	n=0~10	P/F
VXXG0307 56h Xh Xh 47h 30h 33h 30h 37h 0Dh Bass n=0~16 Pn/F VXXG0307 56h Xh Xh 53h 30h 33h 30h 37h nh 0Dh Bass n=0~16 P/F 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 47h 30h 33h 30h 38h 0Dh Projection Mode 0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling P/F VXXS0309n 56h Xh Xh 47h 30h 33h 30h 38h nh 0Dh Projection Mode 0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling P/F VXXS0309n 56h Xh Xh 47h 30h 33h 30h 38h nh 0Dh Set vertical keystone value n=-40~+40 Pn/F VXXS0310n 56h Xh Xh 47h 30h 33h 30h 39h n0Dh Set vertical keystone value n=-20~+20 Pn/F VXXS0310n 56h Xh Xh 47h 30h 33h 31h 30h 0Dh Set horizontal keystone value n=-20~+20 P/F VXXG0311 56h Xh Xh 53h 30h 33h 31h 31h 0Dh Adjust the zoom n=-10~+10 Pn/F VXXS0312n 56h Xh Xh 53h 30h 33h 31h 32h 0Dh Adjust the focus n=-20~+20 P/F VXXS0313n 56h Xh Xh 47h 30h 33h 31h 32h 0Dh Adjust the vertical lens shift n=-20	VXXG0306	56h Xh Xh 47h 30h 33h 30h 36h 0Dh	Treble	n=0~16	Pn/F
VXXS0307n56h Xh Xh 53h 30h 33h 30h 37h nh 0DhBassn=0~16P/FVXXG030856h Xh Xh 47h 30h 33h 30h 38h 0DhProjection Mode0:Front 1:Rear 2:Ceiling 3:Reart-CeilingPn/FVXXS0308n56h Xh Xh 53h 30h 33h 30h 38h n0DhProjection Mode0:Front 1:Rear 2:Ceiling 3:Reart-CeilingPr/FVXXS0309n56h Xh Xh 53h 30h 33h 30h 38h n0DhProjection Mode0:Front 1:Rear 2:Ceiling 3:Reart-CeilingP/FVXXS0309n56h Xh Xh 47h 30h 33h 30h 39h n0DhSet vertical keystone valuen=-40~+40Pn/FVXXS0310n56h Xh Xh 47h 30h 33h 30h 39h n0DhSet vertical keystone valuen=-20~+20Pn/FVXXS0311n56h Xh Xh 47h 30h 33h 31h 30h n0DhSet horizontal keystone valuen=-20~+20Pn/FVXXS0311n56h Xh Xh 47h 30h 33h 31h 31h n0DhAdjust the zoom shiftn=-10~+10Pn/FVXXS0312n56h Xh Xh 47h 30h 33h 31h 32h n0DhAdjust the focus shiftn=-20~+20Pn/FVXXS0313n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXS0313n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXS031456h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXS0314n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXS0314n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVX	VXXS0306n	56h Xh Xh 53h 30h 33h 30h 36h nh 0Dh	Treble	n=0~16	P/F
VXXG030856h Xh Xh 47h 30h 33h 30h 38h 0DhProjection Mode0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling 3:Rear+CeilingPn/FVXXS0308n56h Xh Xh 53h 30h 33h 30h 38h nh 0DhProjection Mode0:Front 1:Rear 2:Ceiling 3:Rear+CeilingP/FVXXG030956h Xh Xh 47h 30h 33h 30h 38h nh 0DhSet vertical keystone valuen=-40~+40Pn/FVXXS0309n56h Xh Xh 53h 30h 33h 30h 39h nb 0DhSet vertical keystone valuen=-40~+40Pn/FVXXG031056h Xh Xh 47h 30h 33h 31h 30h 0DhSet vertical keystone valuen=-20~+20Pn/FVXXG031156h Xh Xh 47h 30h 33h 31h 30h nb 0DhSet horizontal keystone valuen=-20~+20Pn/FVXXG031156h Xh Xh 47h 30h 33h 31h 31h 0DhAdjust the zoomn=-10~+10Pn/FVXXS0312n56h Xh Xh 47h 30h 33h 31h 32h 0DhAdjust the focus shiftn=-20~+20Pn/FVXXG031356h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the focus shiftn=-20~+20Pn/FVXXS0313n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXS0313n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXS0313n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXS0314n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXS0314n56h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/F<	VXXG0307	56h Xh Xh 47h 30h 33h 30h 37h 0Dh	Bass	n=0~16	Pn/F
VXXG030856h Xh Xh 47h 30h 33h 30h 38h 0DhProjection Mode1:Rear 2:Ceiling 3:Rear+Ceiling 0:Front 1:Rear 2:Ceiling 3:Rear+CeilingPn/FVXXS0308n56h Xh Xh 53h 30h 33h 30h 38h nh 0DhProjection Mode0:Front 1:Rear 2:Ceiling 3:Rear+CeilingP/FVXXG030956h Xh Xh 47h 30h 33h 30h 39h 0DhSet vertical keystone valuen=-40~+40Pn/FVXXS0309n56h Xh Xh 53h 30h 33h 30h 39h nh 0DhSet vertical keystone valuen=-40~+40P/FVXXG031056h Xh Xh 47h 30h 33h 31h 30h 0DhSet vertical keystone valuen=-20~+20Pn/FVXXS0310n56h Xh Xh 47h 30h 33h 31h 30h 0DhSet horizontal keystone valuen=-20~+20P/FVXXG031156h Xh Xh 47h 30h 33h 31h 30h 0DhSet horizontal keystone valuen=-10~+10Pn/FVXXG031156h Xh Xh 47h 30h 33h 31h 31h 0DhAdjust the zoomn=-10~+10P/FVXXG031256h Xh Xh 47h 30h 33h 31h 32h 0DhAdjust the focusn=-20~+20Pn/FVXXS0312n56h Xh Xh 47h 30h 33h 31h 32h n0DhAdjust the focusn=-20~+20Pn/FVXXG031356h Xh Xh 53h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 53h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the horizontal lens shiftn=-20~+20Pn/F <tr <td=""></tr>	VXXS0307n	56h Xh Xh 53h 30h 33h 30h 37h nh 0Dh	Bass	n=0~16	P/F
VXXS0308n56h Xh Xh 53h 30h 33h 30h 38h nh 0DhProjection Mode0:Front 1:Rear 2:Ceiling 3:Rear+CeilingP/FVXXG030956h Xh Xh 47h 30h 33h 30h 39h 0DhSet vertical keystone valuen=-40~+40Pn/FVXXS0309n56h Xh Xh 53h 30h 33h 30h 39h n0DhSet vertical keystone valuen=-40~+40P/FVXXG031056h Xh Xh 47h 30h 33h 31h 30h 0DhSet vertical keystone valuen=-20~+20Pn/FVXXG031056h Xh Xh 47h 30h 33h 31h 30h n0DhSet horizontal keystone valuen=-20~+20Pn/FVXXG031156h Xh Xh 53h 30h 33h 31h 30h n0DhSet horizontal keystone valuen=-20~+20Pn/FVXXG031156h Xh Xh 47h 30h 33h 31h 31h 0DhAdjust the zoomn=-10~+10Pn/FVXXG031256h Xh Xh 47h 30h 33h 31h 31h n0DhAdjust the focusn=-20~+20Pn/FVXXG031356h Xh Xh 47h 30h 33h 31h 32h n0DhAdjust the focusn=-20~+20Pn/FVXXG031356h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 34h 0DhAdjust the horizontal lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 34h 0DhAdjust the horizontal lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 34h 0DhAdjust the horizontal lens shiftn=-20~+20Pn/FVXXS0314456h Xh Xh 47h 30h 33h 31h 34h 0DhAdjust th	VXXG0308	56h Xh Xh 47h 30h 33h 30h 38h 0Dh	Projection Mode	1:Rear 2:Ceiling	Pn/F
VXXG0309Soft XII XII 47/II 30H 33H 30H 30H 30H 0DHvalueIII-40-740FIIIVXXS0309n56h Xh Xh 53h 30h 33h 30h 39h nh 0DhSet vertical keystone valuen=-40~+40P/FVXXG031056h Xh Xh 47h 30h 33h 31h 30h 0DhSet vertical keystone valuen=-20~+20Pn/FVXXS0310n56h Xh Xh 53h 30h 33h 31h 30h nh 0DhSet horizontal keystone valuen=-20~+20P/FVXXG031156h Xh Xh 47h 30h 33h 31h 30h nh 0DhAdjust the zoomn=-10~+10Pn/FVXXG031156h Xh Xh 53h 30h 33h 31h 31h nh 0DhAdjust the zoomn=-10~+10P/FVXXG031256h Xh Xh 47h 30h 33h 31h 32h 0DhAdjust the focusn=-20~+20Pn/FVXXS0312n56h Xh Xh 47h 30h 33h 31h 32h n0DhAdjust the focusn=-20~+20Pn/FVXXS0313n56h Xh Xh 47h 30h 33h 31h 33h 0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 33h n0DhAdjust the horizontal lens shiftn=-20~+20Pn/F	VXXS0308n	56h Xh Xh 53h 30h 33h 30h 38h nh 0Dh	Projection Mode	1:Rear 2:Ceiling	P/F
VXXS03091Soft Xit Xit 33h 30h 33h 30h 33h 30h 33h 30h 0Dh valuevalueIII40~+40P/FVXXG031056h Xh Xh 47h 30h 33h 31h 30h 0DhSet horizontal keystone valuen=-20~+20Pn/FVXXS0310n56h Xh Xh 53h 30h 33h 31h 30h nh 0DhSet horizontal keystone valuen=-20~+20P/FVXXG031156h Xh Xh 47h 30h 33h 31h 30h nh 0DhAdjust the zoomn=-10~+10Pn/FVXXS0311n56h Xh Xh 47h 30h 33h 31h 31h nh 0DhAdjust the zoomn=-10~+10P/FVXXG031256h Xh Xh 47h 30h 33h 31h 32h 0DhAdjust the focusn=-20~+20Pn/FVXXS0312n56h Xh Xh 47h 30h 33h 31h 32h n0DhAdjust the focusn=-20~+20P/FVXXG031356h Xh Xh 47h 30h 33h 31h 33h 0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 34h n0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 34h n0DhAdjust the horizontal lens shiftn=-20~+20Pn/F	VXXG0309	56h Xh Xh 47h 30h 33h 30h 39h 0Dh	value		Pn/F
VXXG0310Son Xn Xn 47h 30h 33h 31h 30h nb 0Dhvaluen=-20~+20Ph/FVXXS0310n56h Xh Xh 53h 30h 33h 31h 30h nh 0DhSet horizontal keystone valuen=-20~+20P/FVXXG031156h Xh Xh 47h 30h 33h 31h 31h 0DhAdjust the zoomn=-10~+10Pn/FVXXS0311n56h Xh Xh 53h 30h 33h 31h 31h nh 0DhAdjust the zoomn=-10~+10P/FVXXG031256h Xh Xh 47h 30h 33h 31h 32h 0DhAdjust the focusn=-20~+20Pn/FVXXS0312n56h Xh Xh 53h 30h 33h 31h 32h nb 0DhAdjust the focusn=-20~+20Ph/FVXXG031356h Xh Xh 47h 30h 33h 31h 32h nb 0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXS0313n56h Xh Xh 53h 30h 33h 31h 33h nb 0DhAdjust the vertical lens shiftn=-20~+20Pn/FVXXG031456h Xh Xh 47h 30h 33h 31h 34h 0DhAdjust the horizontal lens shiftn=-20~+20Pn/FVXXS0314n56h Xh Xh 47h 30h 33h 31h 34h 0DhAdjust the horizontal lens shiftn=-20~+20Pn/F	VXXS0309n	56h Xh Xh 53h 30h 33h 30h 39h nh 0Dh	value		P/F
VXXS03101Solit XII XII SSIT Solit SSIT Still Solit III ODIT valuevalue $n=-20 + 20$ P/FVXXG031156h Xh Xh 47h 30h 33h 31h 31h 0DhAdjust the zoom $n=-10 - +10$ Pn/FVXXS0311n56h Xh Xh 53h 30h 33h 31h 31h nh 0DhAdjust the zoom $n=-10 - +10$ P/FVXXG031256h Xh Xh 47h 30h 33h 31h 32h 0DhAdjust the focus $n=-20 - +20$ Pn/FVXXS0312n56h Xh Xh 53h 30h 33h 31h 32h nh 0DhAdjust the focus $n=-20 - +20$ P/FVXXG031356h Xh Xh 47h 30h 33h 31h 32h nh 0DhAdjust the vertical lens shift $n=-20 - +20$ Pn/FVXXS0313n56h Xh Xh 53h 30h 33h 31h 33h nh 0DhAdjust the vertical lens shift $n=-20 - +20$ P/FVXXG031456h Xh Xh 47h 30h 33h 31h 34h 0DhAdjust the horizontal lens shift $n=-20 - +20$ Pn/F	VXXG0310	56h Xh Xh 47h 30h 33h 31h 30h 0Dh	value	n=-20~+20	Pn/F
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VXXG0313 Son Xn Xn 47n 30n 33n 31n 33n 0Dn shift n=-20~+20 Ph/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 Ph/F VXXG0314 56h Xh Xh 47h 30h 33h 31h 34h 0Dh Adjust the horizontal lens shift n=-20~+20 Ph/F	VXXS0312n	56h Xh Xh 53h 30h 33h 31h 32h nh 0Dh		n=-20~+20	P/F
VXXG0314 56h Xh Xh 47h 30h 33h 31h 34h 0Dh Adjust the horizontal lens shift n=-20~+20 Pr/F VXXG0314 56h Xh Xh 47h 30h 33h 31h 34h 0Dh Adjust the horizontal lens shift n=-20~+20 Pn/F	VXXG0313	56h Xh Xh 47h 30h 33h 31h 33h 0Dh	shift	n=-20~+20	Pn/F
VXXG0314 Son Xn Xn 47n 30n 33n 31n 34n 0Dn $ ens $ shift $n=-20 \approx +20$ Pn/F	VXXS0313n	56h Xh Xh 53h 30h 33h 31h 33h nh 0Dh	shift	n=-20~+20	P/F
	VXXG0314	56h Xh Xh 47h 30h 33h 31h 34h 0Dh	lens shift	n=-20~+20	Pn/F
	VXXS0314n	56h Xh Xh 53h 30h 33h 31h 34h nh 0Dh		n=-20~+20	P/F

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	Command Group 03					
ASCII	HEX	Function	Description	Return Value		
VXXG0315	56h Xh Xh 47h 30h 33h 31h 35h 0Dh	3D	0:Off 1:DLP-Link 2:IR	Pn/F		
VXXS0315n	56h Xh Xh 53h 30h 33h 31h 35h nh 0Dh	3D	0:Off 1:DLP-Link 2:IR	P/F		
VXXG0316	56h Xh Xh 47h 30h 33h 31h 36h 0Dh	3D Sync Invert	0:Off 1:On	Pn/F		
VXXS0316n	56h Xh Xh 53h 30h 33h 31h 36h nh 0Dh	3D Sync Invert	0:Off 1:On	P/F		
VXXG0317	56h Xh Xh 47h 30h 33h 31h 37h 0Dh	3D Format	0:Frame Packing 1:Top/Bottom 2:Side-By-Side 3:Frame Sequential	Pn/F		
VXXS0317n	56h Xh Xh 53h 30h 33h 31h 36h nh 0Dh	3D Format	0:Frame Packing 1:Top/Bottom 2:Side-By-Side 3:Frame Sequential	P/F		

Command Group 04 (Remote Control)				
ASCII	HEX	Function	Description	Return Value
VXXS0401	56h Xh Xh 53h 30h 34h 30h 31h 0Dh	UP arrow		P/F
VXXS0402	56h Xh Xh 53h 30h 34h 30h 32h 0Dh	DOWN arrow		P/F
VXXS0403	56h Xh Xh 53h 30h 34h 30h 33h 0Dh	LEFT arrow		P/F
VXXS0404	56h Xh Xh 53h 30h 34h 30h 34h 0Dh	RIGHT arrow		P/F
VXXS0405	56h Xh Xh 53h 30h 34h 30h 35h 0Dh	POWER		P/F
VXXS0406	56h Xh Xh 53h 30h 34h 30h 36h 0Dh	EXIT		P/F
VXXS0407	56h Xh Xh 53h 30h 34h 30h 37h 0Dh	INPUT		P/F
VXXS0408	56h Xh Xh 53h 30h 34h 30h 38h 0Dh	AUTO		P/F
VXXS0409	56h Xh Xh 53h 30h 34h 30h 39h 0Dh	KEYSTONE+		P/F
VXXS0410	56h Xh Xh 53h 30h 34h 31h 30h 0Dh	KEYSTONE-		P/F
VXXS0411	56h Xh Xh 53h 30h 34h 31h 31h 0Dh	MENU		P/F
VXXS0412	56h Xh Xh 53h 30h 34h 31h 32h 0Dh	STATUS		P/F
VXXS0413	56h Xh Xh 53h 30h 34h 31h 33h 0Dh	MUTE		P/F
VXXS0414	56h Xh Xh 53h 30h 34h 31h 34h 0Dh	ZOOM+		P/F
VXXS0415	56h Xh Xh 53h 30h 34h 31h 35h 0Dh	ZOOM-		P/F
VXXS0416	56h Xh Xh 53h 30h 34h 31h 36h 0Dh	BLANK		P/F
VXXS0417	56h Xh Xh 53h 30h 34h 31h 37h 0Dh	FREEZE		P/F
VXXS0418	56h Xh Xh 53h 30h 34h 31h 38h 0Dh	VOLUME+		P/F
VXXS0419	56h Xh Xh 53h 30h 34h 31h 39h 0Dh	VOLUME-		P/F
VXXS0420	56h Xh Xh 53h 30h 34h 32h 30h 0Dh	Enter		P/F

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