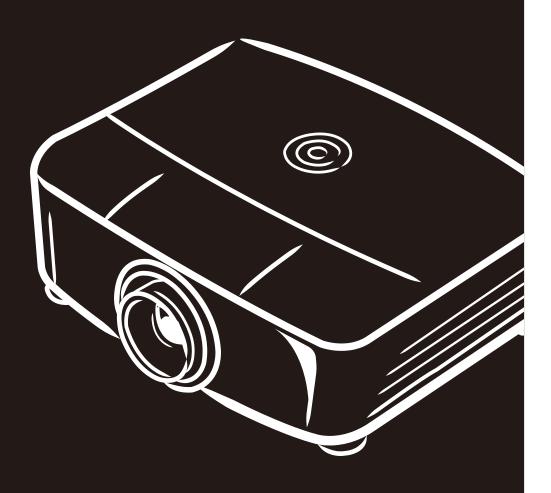


H5095 Series

User Manual 用戶手冊 用户手册 Manual del usuario Manuel de l'utilisateur Benutzerhandbuch 사용자 설명서





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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.



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."

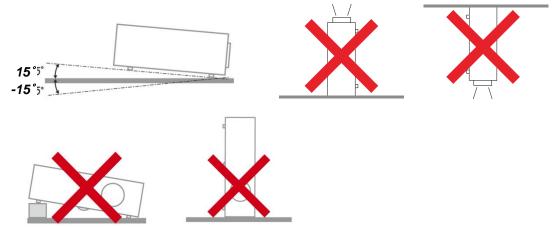
General Safety Information

- 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.

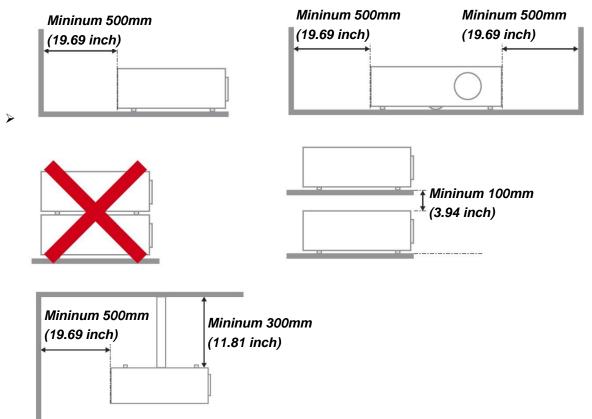
Projector Installation Notice

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
- > 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 (> 1 meter) 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 53 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* on page 59.
- > 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 72.

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 WUXGA 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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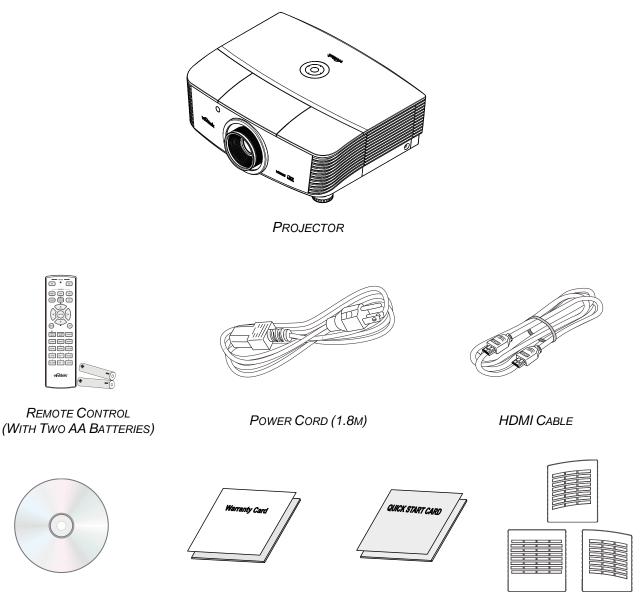
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GETTING STARTED

Packing Checklist

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

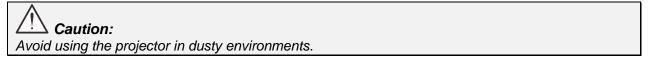


CD-ROM (This User's Manual) WARRANTY CARD

QUICK START CARD

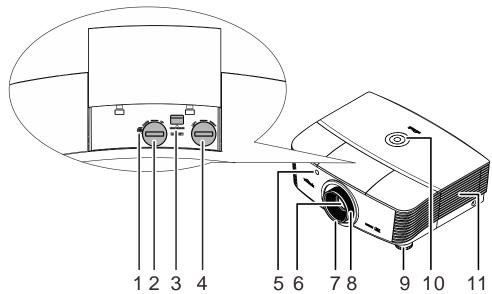
DUST FILTER (OPTIONAL)

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.



Views of Projector Parts

Front-right View



Ітем	Label	DESCRIPTION	SEE PAGE:	
1.	Screw	For ensure the lens position		
2.	Vertical lens shift	Adjusts the image position vertically	18	
3.	Lens release button	Press the release button before removing the lens	11	
4.	Horizontal lens shift	Adjusts the image position horizontally	19	
5.	IR receiver	Receives IR signal from remote control	7	
6.	Lens	Projection Lens		
7.	Focus ring	Focuses the projected image	20	
8.	Zoom ring	Enlarges the projected image	20	
9.	Height adjuster	Adjusts level of projector	17	
10.	Function keys	See Top view—On-screen Display (OSD) buttons and LEDs.		
11.	Lamp cover	Removes cover to replace lamp module	53	

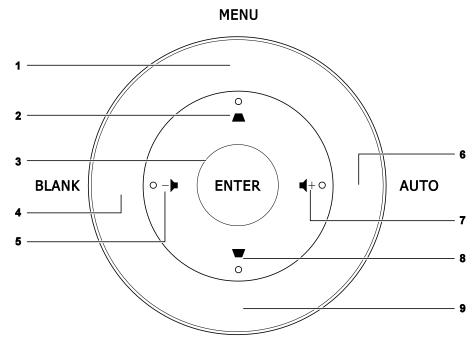
Important:

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

Note:

Suggest to loosen the screw before lens shift adjustment and tighten up after finished adjustment.

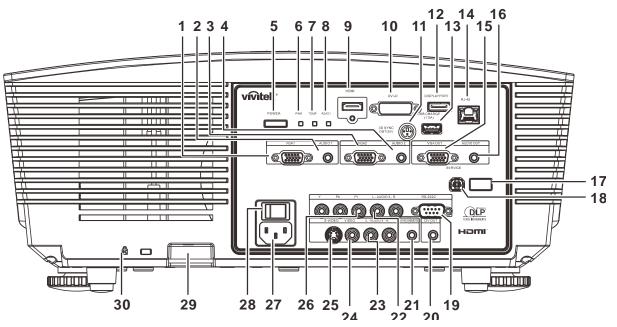
Top view—On-screen Display (OSD) buttons and LEDs



SOURCE

Ітем	LABEL	DESCRIPTION	
1.	MENU	Opens and exits OSD menus	
2.		Navigates and changes settings in the OSD Quick Menu – For Keystone	22
3.	ENTER	Enter or confirm highlighted OSD menu item	
4.	BLANK	Displays a blank screen and mutes audio	
5.	->	Navigates and changes settings in the OSD Quick Menu – For Volume -	
6.	AUTO	Optimizes image size, position, and resolution	
7.	4 +	Navigates and changes settings in the OSD Quick Menu – For Volume +	- 22
8.	T	Navigates and changes settings in the OSD Quick Menu – For Keystone	
9.	SOURCE	Enter the Source menu	

<u>Rear view</u>



Ітем	LABEL	DESCRIPTION SEE PAGE:			
1.	VGA1	Connect a F	Connect a RGB cable from a computer or a video enabled device.		
2.	AUDIO IN 1	Connect the	Connect the AUDIO cable from an input device.		
3.	VGA2	Connect a F	RGB cable from a computer or a video enable	ed device.	
4.	AUDIO IN 2		e AUDIO cable from an input device. e with DVI audio input.		
5.	POWER		rojector on or off (main power switch must n first). Press to place the projector in de.	13	
		Red	Standby, Over Temperature		
6.	PWR LED	Blue	Lamp Lit , System stable		
		Flashing Power on, Cooling, Error code (See as LED indicator table)		62	
7.	TEMP LED	Red	Over temperature		
8.	READY LED	Red	Lamp Lit , System stable, Lamp Fail		
0.	READTLED	Flashing	Flashing Error code (See as LED indicator table)		
9.	HDMI	Connect the	e HDMI cable from a HDMI device.		
10.	DVI-D	Connect the DVI cable from a computer.			
11.	3D SYNC OUT (5V)	Connect 3D IR glasses receiver unit.			
12.	DISPLAYPORT	Connect a DISPLAYPORT cable to a DISPLAYPORT source.			
13.	USB CHARGE (1.5A)	For USB charge.			
14.	RJ-45	Connect a L	AN cable from Ethernet.		

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Ітем	LABEL	DESCRIPTION SEE PAG		
15.	VGA OUT	Connect the RGB cable to a display. (Pass through by VGA1 only)		
16.	AUDIO OUT	Connect an AUDIO cable for audio loop through.		
17.	IR receiver	Receive IR signal from remote control.	7	
18.	SERVICE	For service use.		
19.	RS-232	Connects RS-232 serial port cable for remote control.		
20.	12V OUT	When connected to the screen through a commercially a the screen deploys automatically on start up of the proje retracts when the projector is powered off (see notes bel	ctor. The screen	
21.	WIRED REMOTE	Wire remote control connector (connect with wire remote Remote Control set).	e connector of the	
22.	AUDIO IN 3 L/R RCA (YPbPr)	Connect the audio cables from a audio device.		
23.	AUDIO IN 4 L/R RCA (Video/ S- Video)	Connect the audio cables from a audio device.		
24.	VIDEO	Connect the composite cable from a video device.		
25.	S-VIDEO	Connect the S-video cable from a video device.		
26.	YPbPr	Connect a component video enabled device.		
27.	AC IN	Connects the power cable.		
28.	Power switch	Turns on/off the projector. 13		
29.	Security chain lock	Helps protect the projector from unauthorized use.		
30.	Kensington Lock	Secures to permanent object with a Kensington Lock		

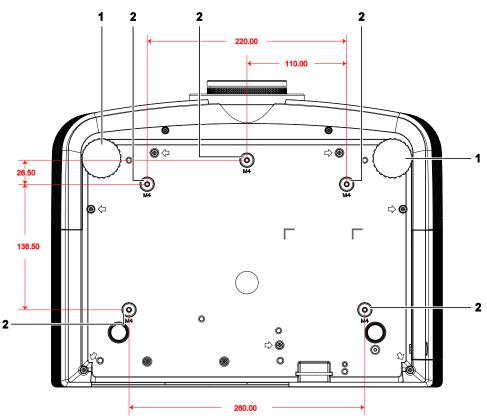
Note:

- 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.

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.	Tilt adjustor	Rotate adjuster lever to adjust angle position.	
2.	Ceiling support holes	Contact your dealer for information on mounting the projector on a ceiling	

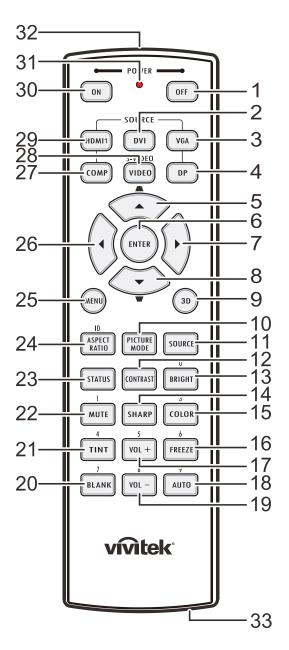
Note:

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

For ceiling installations, use approved mounting hardware and M4 screws with a maximum screw depth of 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.

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Ітем	LABEL	DESCRIPTION SEE F			
1.	Power OFF	Turns the projector off	13		
2.	DVI	Displays the DVI source selection			
3.	VGA	Displays the VGA source selection			
4.	DP	Displays the DisplayPort source selection			
5.	Up cursor / Keystone+	Navigates and changes settings in the OSD Quick Menu – For Keystone			
6.	ENTER	Enters and confirms settings in the OSD	22		
7.	Right cursor	Navigates and changes settings in the OSD			
8.	Down cursor / Keystone-	Navigates and changes settings in the OSD Quick Menu – For Keystone			
9.	3D	Activate 3D video (not available in D5180HD series)			
10.	PICTURE MODE	Changes the Display Mode setting			
11.	SOURCE	Alternate input source	22		
12.	CONTRAST	Displays the contrast settings bar			
13.	BRIGHT	Displays the brightness setting bar			
14.	SHARP	Displays the sharpness setting bar			
15.	COLOR	Displays the color setting bar			
16.	FREEZE	Freezes/unfreezes the on-screen picture			
17.	VOL +	Adjusts volume			
18.	AUTO	Auto adjustment for frequency, phase, and position			
19.	VOL -	Adjusts volume			
20.	BLANK	Makes the screen blank			
21.	TINT	Displays the tint setting bar			
22.	MUTE	Mutes the built-in speaker			
23.	STATUS	Opens the OSD Status menu (the menu only opens w device is detected)	hen an input		
24.	ASPECT RATIO	Displays the ASPECT RATIO selections			
25.	MENU	Opens or closed the OSD	22		
26.	Left cursor	Navigates and changes settings in the OSD	22		
27.	COMP	Displays the Component source selection			
28.	VIDEO	Displays the VIDEO source selection			
29.	HDMI 1	Displays the HDMI 1 source selection			
30.	Power ON	Turns the projector on	13		
31.	Status LED	Lights when the remote control is used			
32.	IR transmitter	Transmits signals to projector			
33.	Wired remote connector	Wired remote function used			

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

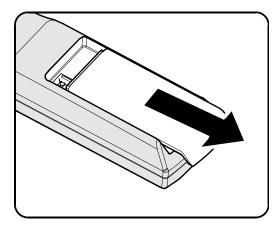
The projector can be operated using the remote control or the buttons on the top of the projector. All operations can be carried out with the remote control; however, the buttons on the projector are limited in use.

DLP Projector—User's Manual

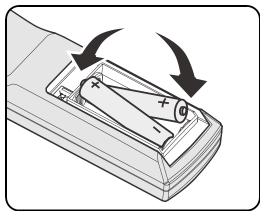
SETUP AND OPERATION

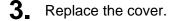
Inserting the Remote Control Batteries

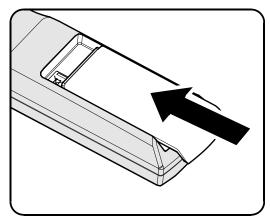
1 Remove the battery compartment cover by sliding the cover in the direction of the arrow.



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







Caution:

- 1. Only use AA 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.

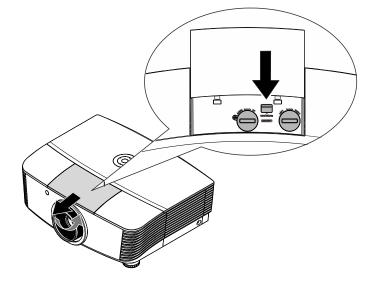
Installing or Removing the Optional Lens

Caution:

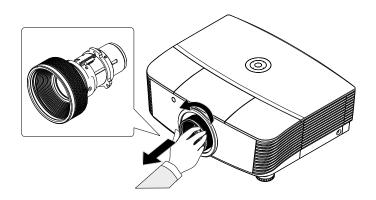
- Do not shake or place excessive pressure on the projector or the lens components as the projector and lens components contain precision parts.
- Before removing or installing the lens, be sure to turn off the projector, wait until the cooling fans stop, and turn off the main power switch.
- Do not touch the lens surface when removing or installing the lens.
- Keep fingerprints, dust or oil off the lens surface.
- Do not scratch the lens surface.
- Work on a level surface with a soft cloth under it to avoid scratching.
- If you remove and store the lens, attach the lens cap to the projector to keep off dust and dirt.

Removing the Existing Lens From the Projector

- Pull and release the top cover to open as shown.
- **2.** Push the LENSE RELEASE button to the unlock position.



- **3.** Grasp the lens.
- **4.** Rotate the lens counterclockwise. The existing lens will be disengaged.
- **5.** Pull out the existing lens slowly.



Installing the New Lens

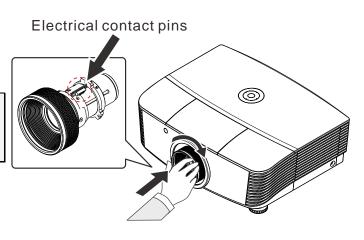
1 Align the notches and correctly position the electrical contact pad as shown in the picture.

Note:

Pin of Electrical contact pins should be in the direction as shown in the picture.

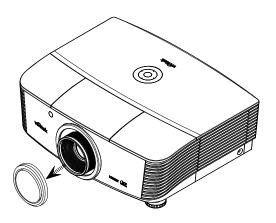


Rotate the lens clockwise until you feel it click into place.

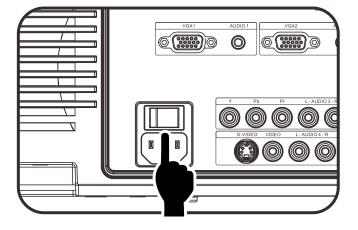


Starting and Shutting down the Projector

Remove the lens cap.



2. Securely connect the power cord and signal cable. When connected, the power led will turn red.



> The PWR LED will now flash red. The startup screen will display in approximately 30 seconds. The first time you use the projector, you can select your preferred language from quick menu after the startup screen display.



If more than one input device is connected, press the SOURCE button and use ▲ ▼ to scroll among devices.

	Source		
	DVI		
	HDMI		
	DisplayPort		
\\\\ 1	VGA1		
₩/2	VGA 2		
00	Component Video		
٢	S-Video		
<u></u>	Composite Video		
Item A	\djust ↓/ }		
Scroll	Scroll 🔺 🔽		
Menu	Menu = Exit		
I: Digital Vi	sual Interface		

- HDMI: High-Definition Multimedia Interface compatible
- DisplayPort: Digital display interface
- VGA 1 / 2: Analog RGB 1 / 2
- Component Video: DVD input YCbCr / YPbPr , or HDTV input YPbPr
- 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.

Power Off? Press Power again

Caution:

- 1. Be sure to remove the lens cap before starting projector.
- 2. Do not unplug the power cord until the READY LED stops flashing–indicating the projector has cooled down.

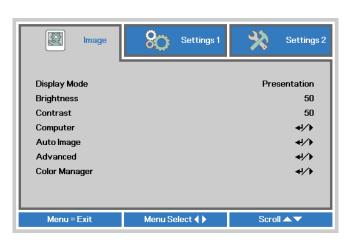
Setting an Access Password (Security Lock)

You can use the 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 22 and *Setting the OSD Language* on page 23 for help on using OSD menus.)

Important:

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

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



- Press the cursor < ► button to move to the Settings 1 menu, press the cursor
 ▲ ▼ button to select Advanced 1.
- දිටි 羑 * Image Settings 1 Settings 2 Source **+**/) Ρ Projection Aspect Ratio Fill 0 Keystone Digital Zoom 0 Audio **+//** Advanced 1 **4/**} Advanced 2 **+/**) Menu = Exit Menu Select 🜗 Scroll 🔺
- Press ← (Enter) / ► to enter the Advanced 1 sub menu. Press the cursor ▲ ▼ button to select Security Lock.
- **4.** Press the cursor **◄** button to enter and enable or disable security lock function.

A password dialog box automatically appears.



5. You can use the cursor buttons

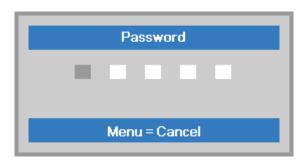
either on keypad or IR remote control for password entry. You can use any combination including the same arrow five times, but not less than five.

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

_	_	_	_	_
ord				
Exit				
LAIC				
ord				
*	*	*	*	*
*	*	*	*	*
	, i			
	Exit ord *	Exit ord * *	Exit ord * * *	Exit

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

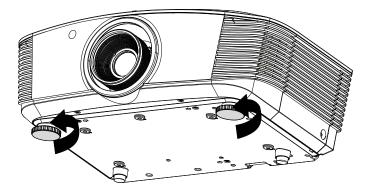
The service center will validate the owner and help reset the password.



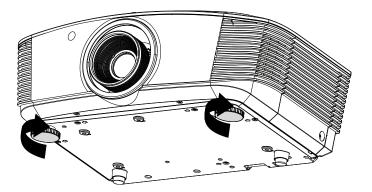
Adjusting the Projector Level

Take note of the following when setting up the projector:

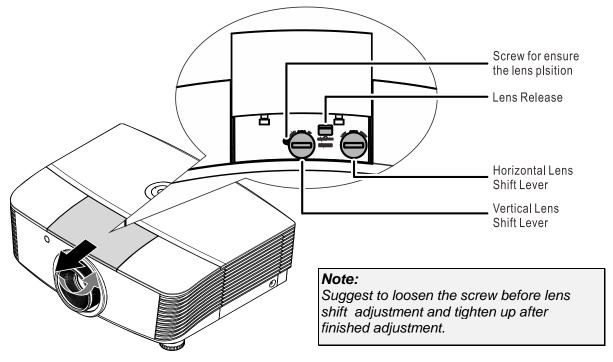
- The projector table or stand should be level and sturdy.
- Position the projector so that it is perpendicular to the screen.
- Remove the Back Foot Holder on the rear adjuster foot before adjusting the projection angle.
- Ensure the cables are in a safe location. You could trip over them.
- 1. To raise the level of the projector, twist the adjusters counter clockwise.



2. To lower the level of the projector, lift the projector and twist the adjusters clockwise.





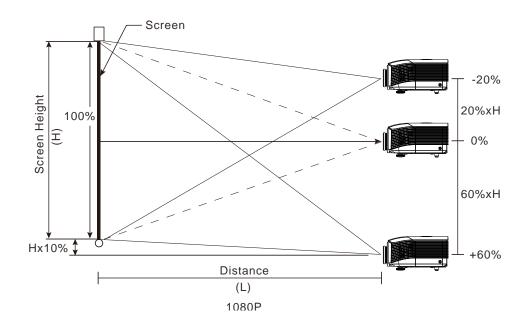


The Shift feature provides a lens shift function that can be used to adjust the position of the projected image either horizontally or vertically within the range detailed below.

Shift is a unique system that provides lens shift while maintaining a much higher ANSI contrast ratio than traditional lens shift systems.

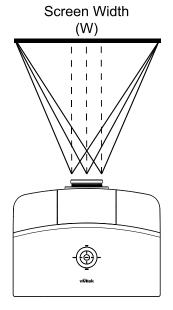
Adjusting the vertical image position

The vertical image height can be adjusted between 60% and -20% (1080P) of offset position. Note that the maximum vertical image height adjustment can be limited by the horizontal image position. For example it is not possible to achieve the maximum vertical image position height detailed above if the horizontal image position is at maximum. Please consult the Shift Range diagram below for further clarification.

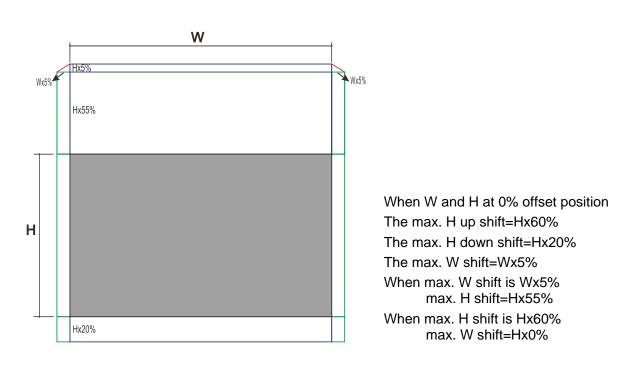


Adjusting the horizontal image position

With the lens in the center position the horizontal image position can be adjusted to the left or right by up to a maximum of 5% of the image width. Note that the maximum horizontal image height adjustment can be limited by the vertical image position. For example it is not possible to achieve the maximum horizontal image position if the vertical image position is at maximum. Please consult the Shift Range diagram below for further clarification.

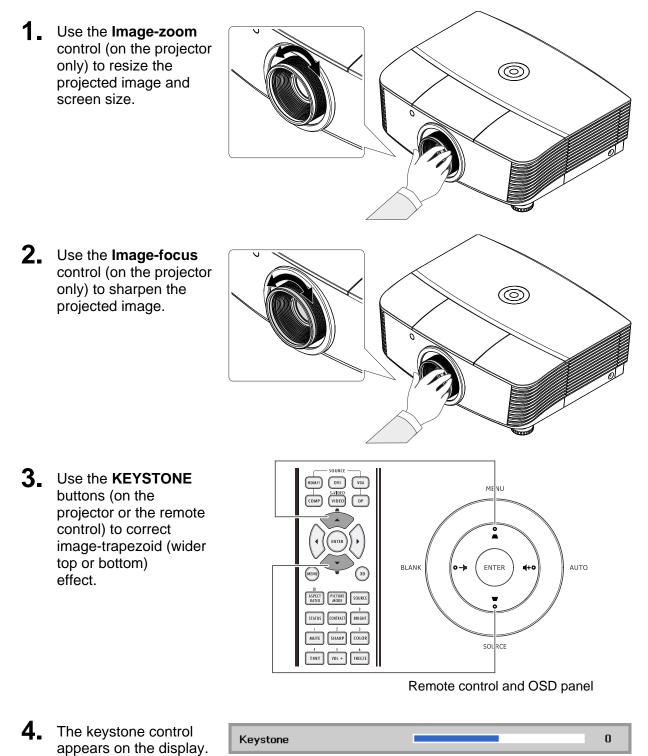


Left Side Wx5% Wx5% Wx5%

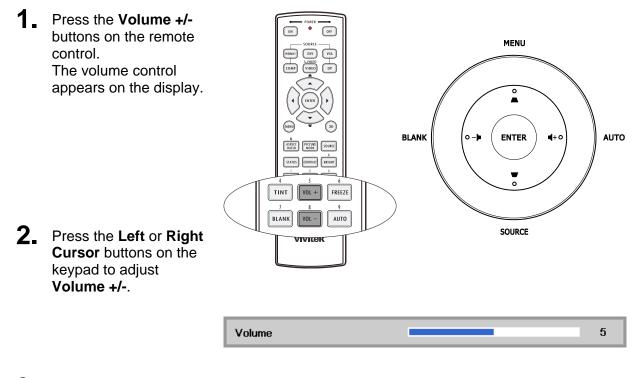


Shift Range Diagram

Adjusting the Zoom, Focus and Keystone



Adjusting the Volume



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



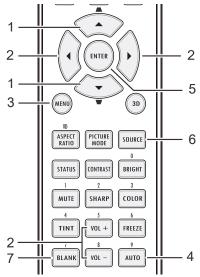
ON-SCREEN DISPLAY (OSD) MENU SETTINGS

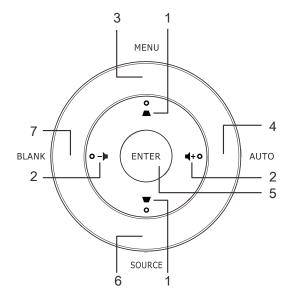
OSD Menu Controls

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

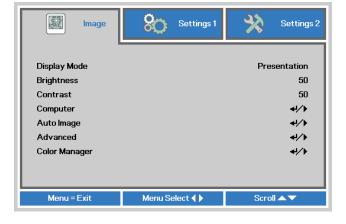
Navigating the OSD

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





- 1. To enter the OSD, press the **MENU** button.
- There are three menus. Press the cursor
 ♦► button to move through the menus.
- 3. Press the cursor ▲ ▼ button to move up and don in a menu.
- 4. Press **◄** to change values for settings.
- 5. Press **MENU** to close the OSD or leave a submenu.



Note:

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

Setting the OSD Language

Set the OSD language to your preference before continuing.

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

image	Settings 1	Settings 2
Source Projection Aspect Ratio Keystone Digital Zoom Audio Advanced 1 Advanced 2		4\⁄ } P Fill 0 4\⁄ } 4\⁄ } 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		
Splash Logo		On
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.

Main				
Menu	Sub Menu			Settings
Image	┌ Display Mode			Presentation, Bright, Game, Movie, TV, sRGB, Blackboard, User1, User2, ISF_Day, ISF_Night
	Brightness			0~100
	Contrast			0~100
	Computer	Horizontal Position		-5~5 (depend on Autolock)
		Vertical Position		-5~5 (depend on Autolock)
		Frequency		0~31
		Tracking		-5~5
		Auto Sync		On, Off
	Auto Image			
	Advanced	Brilliant Color		1~10
		Sharpness		0~31
		Gamma		1.8, 2.0, 2.2, 2.4, B&W, Linear
		Color Temperature		Warm, Normal, Cold
		Video AGC		Off, On
		Video Saturation		0~100
		Video Tint		0~100
		White Balance	RGain	0~200
			GGain	0~200
			BGain	0~200
			ROffset	-256~255
			GOffset	-256~255
			BOffset	-256~255
	^L Color Manager	Red	Hue, Saturation, Gain	0~100
		Green	Hue, Saturation, Gain	0~100
		Blue	Hue, Saturation, Gain	0~100
		<u>Cyan</u>	Hue, Saturation, Gain	0~100
		Magenta	Hue, Saturation, Gain	0~100
		Yellow	Hue, Saturation, Gain	0~100
		^L White	Red, Green, Blue	0~100

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

DLP Projector—User's Manual

Main					
Menu	Sub Menu			Settings	
Settings 2	-Auto Source		Off, On		
	No Signal Power Off		0~180		
	Auto Power On			Off, On	
	Lamp Mode			ECO, Normal, Dynamic Eco	
	Reset All				
	Status	Active Source			
		Video Information			
		Lamp Hours(ECO, Normal)		
		Software Version			
		-Serial Number			
	Advanced 1	Menu Position		Center, Down, Up, Left, Right	
		Translucent Menu		0%, 25%, 50%, 75%, 100%	
		Low Power Mode		Off, Low Power , On by LAN, VGA Out	
		Fan Speed		Normal, High	
		Lamp Hour Reset			
		Projector ID		0-98	
		Network	Network State	Connect, Disconnect	
			DHCP	On, Off	
			IP Address	0~255, 0~255, 0~255. 0~255	
			Subnet Mask	0~255, 0~255, 0~255. 0~255	
			Gateway	0~255, 0~255, 0~255. 0~255	
			DNS	0~255, 0~255, 0~255. 0~255	
			Apply	Ok / Cancel	
		ISF Mode		Off, Lock, Unlock	
l	Advanced 2	Sleep Timer		0~600	
		Source Filter	DVI	Disable, Enable	
			HDMI	Disable, Enable	
			Display Port	Disable, Enable	
			VGA1	Disable, Enable	
			VGA2	Disable, Enable	
			Component Video	Disable, Enable	
			S-Video	Disable, Enable	
			Composite Video	Disable, Enable	
		Wall Color		Off, Light Yellow, Pink, Light Green, Blue, blackboard	
		Color Space		Auto, RGB, YUV	
		Quantization Range		Auto, Full, limit	
		Screen Display		16:9 Native, 2.35 Ana, Fixed Ana, Native	

Image Menu



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

Image	Settings 1	Settings 2
Display Mode Brightness Contrast Computer Auto Image Advanced		Presentation 50 50 4// 4// 4//
Color Manager Menu = Exit	Menu Select 🌗	+↓⁄> Scroll ▲▼

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
Auto Image	Press
Advanced	Press ← (Enter) / ► to enter the Advanced menu. See Advanced Feature on page 29.
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
Auto Sync		On
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 \blacktriangleleft button to enter and adjust the A/D sampling clock.
Tracking	Press the cursor ◀► button to enter and adjust the A/D sampling dot.
Auto Sync	Press the cursor ◀► button to enter and enable or disable the autolock control for RGB source.

Advanced Feature

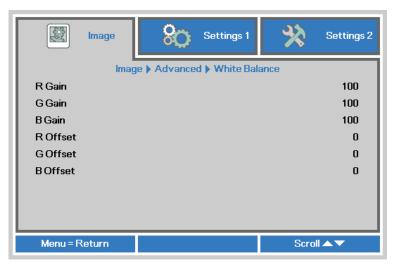
Press the **Menu** button to open the **OSD** menu. Press $\blacktriangleleft \triangleright$ to move to the **Image** menu. Press $\lor \blacktriangle$ to move to the **Advanced** menu and then press **Enter** or \triangleright . Press $\lor \blacktriangle$ to move up and down in the **Advanced** menu.

Mage	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
White Balance		+/ ↓
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 \blacktriangleleft button to enter and adjust the video saturation.	
Video Tint	Press the cursor ◀► button to enter and adjust the video tint/hue.	
White Balance	Press the ENTER / \blacktriangleright button to enter the White Balance sub menu. See <i>White Balance</i> on page 30.	

White Balance

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



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

Color Manager

Press the **Menu** button to open the **OSD** menu. Press $\blacktriangleleft \triangleright$ 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		4!/)
Green		4/) 4//) 4//)
Blue		↓/ }
Cyan		4/> 4/> 4/>
Magenta		↓/ ▶
Yellow		↓/ ▶
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 $\blacktriangleleft \triangleright$ button to move to the **Settings** 1 menu. Press the cursor $\blacktriangle \checkmark$ button to move up and down in the **Settings** 1 menu. Press $\blacktriangleleft \triangleright$ to enter and change values for settings.

image	Settings 1	Settings 2
Source Projection		≁ \ه [٩]
Aspect Ratio Keystone		Fill O
Digital Zoom Audio		0 +//>
Advanced 1 Advanced 2		4/) 4/) 4/)
Menu = Exit	Menu Select 🜗	Scroll 🔺 🔻

Ітем	DESCRIPTION	
Source	Press	
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 $\lor \blacktriangle$ to move to the **Audio** menu and then press **Enter** or \triangleright . Press $\lor \blacktriangle$ to move up and down in the **Audio** menu.

image	Settings 1	Settings 2
	Settings 1) Audio	
Volume		5
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		
Splash Logo		On
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.	
Splash Logo	Press the cursor ◀► button to enter and select splash logo on or off.	
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.	
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.





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 $\blacktriangleleft \triangleright$ 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 $\blacktriangleleft \triangleright$ 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	¥?	Settings 2
Auto Source No Signal Power Off (r	min)		Off 0
Auto Power On Off			Off Normal
Reset All			
Advanced 1 4/>			
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 Singal Power Off (min.)	Press the cursor ◀▶ button to enter and enable or disable automatic shutdown of lamp when no signal.
Auto Power On	Press the cursor ◀▶ button to enter and enable or disable automatic power On when AC power is supplied.
Lamp Mode	Press the cursor ◀► button to enter and select the lamp mode for higher brightness or lower brightness to save lamp life.
Reset All	Press ← (Enter) / ► to reset all settings to default values.
Status	Press
Advanced 1	Press
Advanced 2	Press

Note :

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

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

<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, Normal)	
Software Version	Showing system software version.	
Serial Number	Showing serial number of this projector.	

Advanced 1 Feature

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

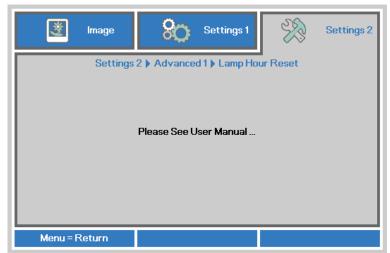
image	Settings 1	¥?	Settings 2
	Settings 2 Advanced 1	•	
Menu Position			D
Translucent Menu			0%
Low Power Mode			Off
Fan Speed			Normal
Lamp Hour Reset			↓/
Projector ID			00
Network			↓ /▶
ISF Mode			Unlock
Menu = Return		Scro	

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 Off, Low Power, On by LAN or VGA Out.
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 40 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
ISF Mode	Press the cursor ◀▶ button to enter and adjust ISF parameter.

Note:

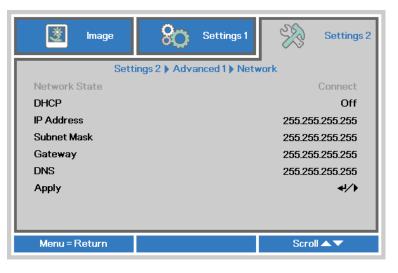
About "On By Lan", RJ45 will support to be waked up in this mode(Under 6W) but scalar won't.

Lamp Hour Reset

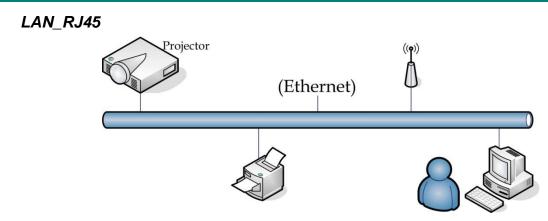


Please refer to *Resetting the Lamp* on page 56 to reset the lamp hour counter.

Network



Ітем	DESCRIPTION
Network State	Displays the network connection status.
DHCP	Press the cursor ◀► button 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



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

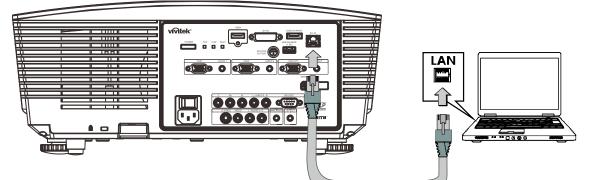
This projector is supported by the specified commands of the Crestron Electronics controller and related software (ex, RoomView ®). http://www.crestron.com/

- This projector is supported by AMX (Device Discovery). <u>http://www.amx.com/</u>
- This projector is compliant to support Extron device(s) for reference. <u>http://www.extron.com/</u>
- This projector supports all commands of PJLink Class1 (Version 1.00). http://pjlink.jbmia.or.jp/english/

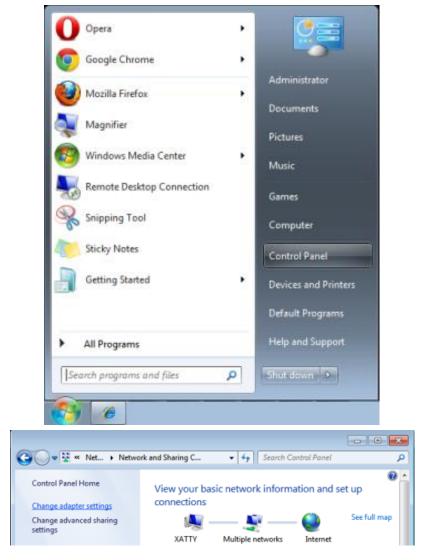
For more detail of information about the diverse types of external devices which can be connected to the LAN/RJ45 port and remote/control the projector, as well as the related control commands supporting for each external device, kindly please get contact with the Support-Service team directly.

<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 and Internet.



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



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

📮 Local Area Connection Properties 📃 💌				
Networking Sharing				
Connect using:				
VIA Rhine II Compatible Fast Ethemet Adapter				
Configure				
This connection uses the following items:				
Client for Microsoft Networks Gas Packet Scheduler Gas Packet Scheduler And Printer Sharing for Microsoft Networks And Protocol Version 6 (TCP/IPv6) And Internet Protocol Version 4 (TCP/IPv4) And				
Install Uninstall Properties				
Description				
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.				
OK Cancel				

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

Internet Protocol Version 4 (TCP/IPv4) Properties				
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.				
Obtain an IP address automatical	ly			
• Use the following IP address:				
IP address:	10 . 10 . 10 . 99			
Subnet mask:	255 . 255 . 255 . 0			
Default gateway:	· · ·			
 Obtain DNS server address auton 	Obtain DNS server address automatically			
• Use the following DNS server add	O Use the following DNS server addresses:			
Preferred DNS server:				
<u>A</u> lternate DNS server:	•••			
🔲 Vaļīdate settings upon exit	Ad <u>v</u> anced			
	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).

Navigation	n Canceled - Windows Internet Explorer	
00-	e http://10.10.10.10/	• • ×
🚖 Favorites		
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.

Alert Mail Settings System Status Power On	vivitek		
Alert Mail Settings System Status Power On Crestron Display Source No Source Lamp Hours 2 Display Mode Presentation Error Status No Error Lamp Hours 2 Display Mode Presentation Error Status No Error Lamp Hours 255.255.00 Default gateway 0.0.00 DNS Server 0.0.00 MAC address Version	Vivid Color, Vivid Life		
Alert Mail Settings System Status Power On Crestron Display Source No Source Lamp Hours 2 Display Mode Presentation Error Status No Error Lamp Hours 2 Display Mode Presentation Error Status No Error Lamp Hours 255.255.00 Default gateway 0.0.00 DNS Server 0.0.00 MAC address Version			
Alert Mail Settings System Status Power On Crestron Display Source No Source Lamp Hours 2 Display Mode Presentation Error Status No Error IP address 10.10.10.10 Subnet mask 255.255.0.0 Default gateway 0.0.0 DNS Server 0.0.0 MAC address Version	Projector Info	Model Name	
System Status Power On Crestron Display Source No Source Lamp Hours 2 Display Mode Presentation Error Status No Error 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 LAN Version LAN Version LAN Version			System
Lamp Hours 2 Display Source No Source Composition Com	Alert Mail Settings	System Status	Power On
Display ModePresentationError StatusNo ErrorError StatusLAN StatusIP address10.10.10.10.10Subnet mask255.255.0.0Default gateway0.0.0.0DNS Server0.0.0MAC addressVersionLAN VersionVersion	Crestron	Display Source	No Source
Error StatusNo ErrorLAN StatusIP address10.10.10.10Subnet mask255.255.0.0Default gateway0.0.0.0DNS Server0.0.0.0MAC addressVersionLAN VersionImage: Colspan="2">Colspan="2"Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2">Colspan="2">Colspan="2"Colspan="2">Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan		Lamp Hours	2
LAN Status IP address 10.10.100 Subnet mask 255.255.0.0 Default gateway 0.0.0.0 DNS Server 0.0.0.0 MAC address Version LAN Version		Display Mode	Presentation
IP address 10.10.10 Subnet mask 255.255.0.0 Default gateway 0.0.0.0 DNS Server 0.0.0.0 MAC address <u>Version</u> LAN Version		Error Status	No Error
Subnet mask 255.255.0.0 Default gateway 0.0.0.0 DNS Server 0.0.0.0 MAC address Version LAN Version			LAN Status
Default gateway 0.0.0.0 DNS Server 0.0.0.0 MAC address Version		IP address	10.10.10.10
DNS Server 0.0.0.0 MAC address Version LAN Version		Subnet mask	255.255.0.0
MAC address Version LAN Version		Default gateway	0.0.0.0
Version LAN Version		DNS Server	0.0.0.0
LAN Version		MAC address	
			Version
F/W Version		LAN Version	
		F/W Version	

DLP Projector—User's Manual

Power Vol -	Mute Vo	+ 10
SourceList		Interface 2.7-2.4
		Menu Auto
		Enter
		Blank V Source
Freeze C	Contrast Brightness	Color
CRESTRON.		Expansion Options
Crestron Control	Projector	User Password
IP Address Projector	Name PJ01	Usr Enabled
	ecation RM01	Password
Control Port Assign		Confirmed
Control Set	Config DHCP Enabled	Usr Set
	idress 10.10.10.10	Admin Password
Subne		
Default Ga		Adm Enabled
DNS	Server 0.0.0.0	Confirmed
		Adm Set
	Net Set	

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

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

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**.

Projector Info	Model Name	
Alert Mail Settings		System
	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
	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 Setting**s are blank.

Projector Info	Se	nd E-Mail	
Alert Mail Settings	Enter	the appropriate settings i	in the fields below: juire a user name or password.)
		SMTP Server: User Name: Password: From: To: CC: E-mail Alert Options Fan lock : Case Open: Lamp Hours Over: Weekly Report:	✓ Over_Heat:✓✓ Lamp Fail:✓

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	Send E-Mail Enter the appropriate settin (Your SMTP server may not	gs in the fields below: require a user name or password.)
	SMTP Server: User Name: Password:	mail.corp.com Port: 25 Sender.US Mail Server Apply
	From: To: CC:	Ivali Server Appy send@mail.corp.com rcvr1@mail.corp.com rcvr2@mail.corp.com
	E-mail Alert Opti Fan lock : Case Open: Lamp Hours Ove Weekly Report:	 ✓ Over_Heat: ✓ Lamp Fail: ✓
		Alert Option Apply

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

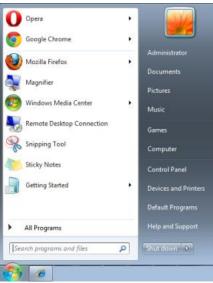
Besides projector connected to RS232 interface with "Hyper-Terminal" communication by dedicated RS232 command control, there is alternative RS232 command control way, so called "RS232 by TELNET" for LAN/RJ45 interface.

Quick Start-Guide for "RS232 by TELNET"

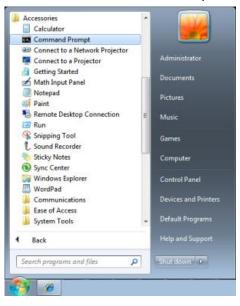
Check and get the IP-Address on OSD of the projector.

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

		Ľ	
😋 🔵 🗢 🔣 🕨 Control Panel 🕨		▼ 4 ₂	م
<u>E</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	User Accounts	Ints
	Security Check for updates Check this computer's security status Allow a program through Windows Firewall	Appearance and Personalization Change desktop background Customize colors Adjust screen resolution	
	View network and Internet View network status and tasks Set up file sharing	Clock, Language, and Region Change keyboards or other in methods	⊫
	Hardware and Sound Play CDs or other media automatically Printer Mouse	Ease of Access Let Windows suggest settings Optimize visual display	s
Recent Tasks C Allow a program through Windows Firewall Turn Windows Firewall on or	Programs Uninstall a program Change startup programs	Additional Options	
off Printer	Mobile PC Change battery settings Adjust commonly used mobility		•

Open "Programs"

Tasks	Uninstall or change a program		
View installed updates 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".
View purchased software	🖓 Organize 🤜 📗 Views 🤜		(
(digital locker)	Name	Publisher	Installed
Turn Windows features on or off	In: J-Zip 4.57 Acrobat.com Adobe AIR Acrobat.com Adobe AIR Adobe Flash Player 10 Plugin Adobe Flash Player ActiveX Adobe Reader 9 Adobe Reader 9 Adobe Kreater 9 Adobe Kreater 9 October 8 Conexant HDA D330 MDC V.92 Modem DivX Codec ØivX Converter	Adobe Systems Incorporated Adobe Systems Incorporated Adobe Systems Incorporated Adobe Systems Incorporated Adobe Systems Incorporated Apple Inc. AVG Technologies Alps Electric DivX, Inc. DivX, Inc.	11/20/20 11/21/20 11/21/20 12/23/20 9/10/200 11/21/20 11/26/20 9/10/200 9/10/200 11/20/20 11/20/20 11/20/20
	HI-TECH PICC-Lite V9.60PL1 DhfraRecorder Intel(R) PROSet/Wireless Software Notermet Explorer Developer Toolbar Invan DB 10.4.1.3	HI-TECH Software Intel Corporation Microsoft Sun Microsystems, Inc	11/20/20 1/23/200 9/10/200 11/24/20 11/20/20

Select "Turn Windows features on or off" to open

Windows Features	x
Turn Windows features on or off	(?)
To turn a feature on, select its check box. To turn a feature off, clear check box. A filled box means that only part of the feature is turned	
RIP Listener	
🔜 🖟 Simple TCPIP services (i.e. echo, daytime etc)	
🕀 🔲 📙 SNMP feature	
🔽 📙 Tablet PC Optional Components	
V Telnet Client	
Telnet Server	_
TFTP Client	
Windows DFS Replication Service	
🔽 📙 Windows Fax and Scan	=
🔽 📙 Windows Meeting Space	
🕀 🔲 📙 Windows Process Activation Service	
	Ψ.
OK Can	cel

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

Microsoft Windows	printer of the later
Please wait while the features are This might take several minutes.	configured.
	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 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 $\blacktriangleleft \triangleright$ to move to the **Settings 2** 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 $\blacktriangleleft \triangleright$ to enter and change values for setting.

image	Settings 1	Settings 2
	Settings 2 Advanced 2	·
Sleep Timer (min)		0
Source Filter		4!∕ ⊁
Wall Color		Off
Color Space		Auto
Quantization Range		Auto
Screen Display		2.35 Ana
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION	
Sleep Timer (min)	Press the cursor ◀► button to enter and set Sleep timer. The projector automatically turns off after the preset period of time.	
Source Filter	Press	
Wall Color	Press the cursor ◀► button to enter and set the Wall Color.	
Color Space	Press the cursor ◀► button to enter and set the Color Space.	
Quantization Range	Press the cursor ◀► button to enter and set the Quantization Range.	
Screen Display	Press the cursor ◀► button to enter and set the Screen Display.	

Source Filter

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



Ітем	DESCRIPTION		
DVI	Press the ◀► buttons to enter and enable or disable the DVI source.		
HDMI	Press the ◀► buttons to enter and enable or disable the HDMI source.		
DisplayPort	Press the ◀► buttons to enter and enable or disable the DisplayPort source.		
VGA1	Press the ◀► buttons to enter and enable or disable the VGA1 source.		
VGA2	Press the ◀► buttons to enter and enable or disable the VGA2 source.		
Component Video	Press the ◀► buttons to enter and enable or disable the Component Video source.		
S-Video	Press the ◀► buttons to enter and enable or disable the S-Video source.		
Composite Video	Press the ◀► buttons 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.

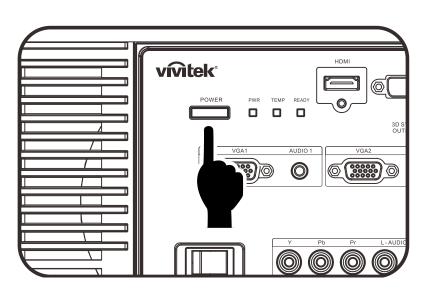
ightarrow if a lamp explodes

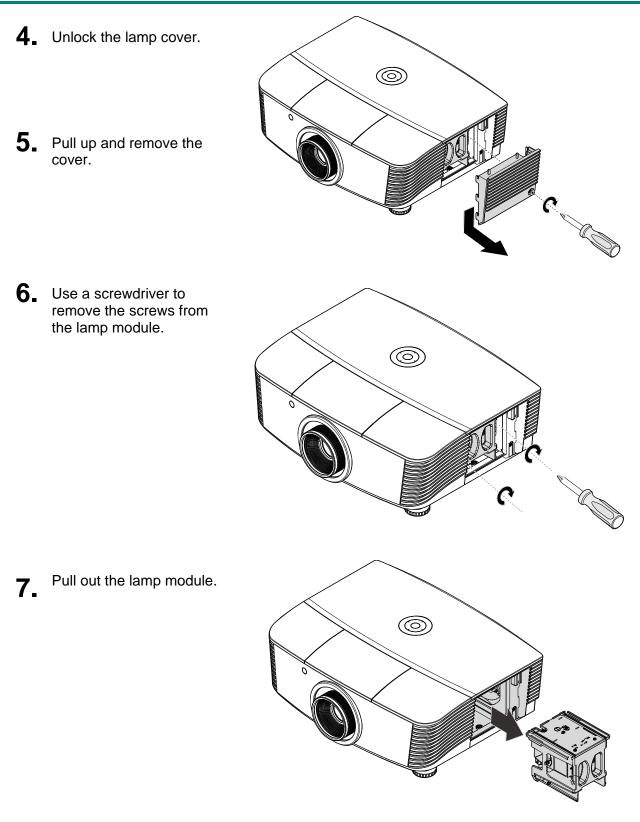
If a lamp explodes, the gas and broken shards may scatter inside the projector and they may come out of the exhaust vent. The gas contains toxic mercury.

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.

- Switch off the power to the projector by pressing the POWER button.
- 2. Allow the projector to cool down at least 30 minutes.
- **B** Disconnect the power cord.

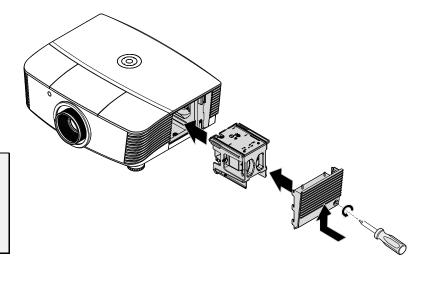




8. Reverse steps 1 to 7 to install the new lamp module. While installing, align the lamp module with the connector and ensure it is level to avoid damage.

Note:

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



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Resetting the Lamp

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

Ť

Auto Source

Auto Power On

Lamp Mode

Advanced 1

Reset All

Status

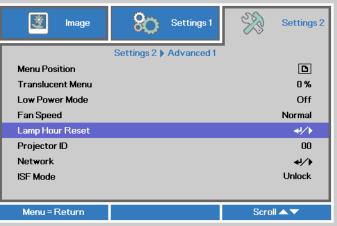
Image

No Signal Power Off (min)

- 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.



Settings 1

X

Settings 2

Off

Off

+//

+/)

≁/∕ **≁/**∕

Scroll 🔺 🔻

Normal

0

4. Press the cursor ► or Enter button.

A message screen appears.

- Press V ▲ <> buttons to reset the lamp hour.
- 6. Press the MENU button to get back to Settings 2.

😻 Image	Settings 1	R	Settings 2				
Settings 2 > Advanced 1 > Lamp Hour Reset							
Please See User Manual							
Menu = Return							

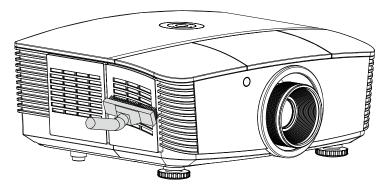
Cleaning the filter (filter: optional parts)

The air filter prevents dust from accumulating on the surface of the optical elements inside the projector. If the filter is dirty or clogged, your projector may overheat or degrading the projected image quality.

1 Turn off the projector, and unplug the AC power cord from the AC outlet.



Cleaning the filter with a vacuum cleaner.





Recommend avoiding dusty or smoky environments when you operate the projector, it may cause poor image quality.

If the filter is heavily clogged and unable to clean, replace a new filter.

Note:

Using a ladder is recommended to access the filter. Do not remove the projector from the wall mount.

Replacing the Filter

1. Turn off the projector, and unplug the AC power cord from the AC outlet. Clean up the dust on the projector and around the air vents. Pull out the filter cover and remove from the projector **2.** Lift the filter from the filter cover. 3. Replace a new filter module or replace filter into cover. 4. Replace the filter cover back to the projector by pushing gently in the direction shown.

Do not wash the filter with the water or other liquid matter

/!\ Important:

When the lamp is replaced, the filter should also be replaced, not cleaned.

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.

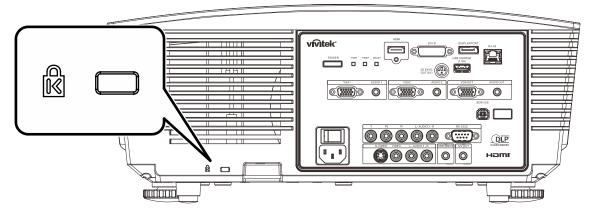
Caution:

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

Using the Physical Lock

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:

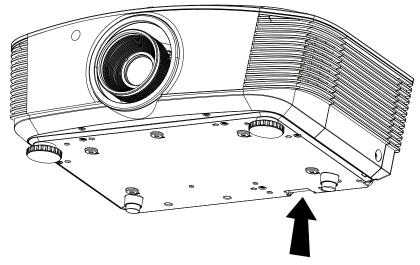
Contact your vendor for details on purchasing a suitable Kensington security cable.

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, <u>http://www.Kensington.com</u>.

Using the Security Chain Lock

In addition to the password protection function and the Kensington lock, the Security Chain Opening helps protect the PROJECTOR from unauthorized use.

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

	Power Led		TEMP LED	READY LED
ERROR CODE MESSAGES	Red	BLUE	Red	Red
System Initial	Flash	—	OFF	OFF
Ready to Power on (Standby)	ON	—	OFF	OFF
System Power on	Flash	—	OFF	OFF
Lamp Lit , System stable		ON	OFF	ON
Cooling	Flash	—	OFF	OFF
Over Temperature	ON	—	ON	OFF
Thermal Break Sensor error	4 blinks	—	OFF	OFF
Lamp Fail	5 blinks	—	OFF	ON
Lamp Temperature shut down	5 blinks	—	OFF	1 blinks
Lamp Short circuit in output detected	5 blinks	—	OFF	2 blinks
Lamp End of lamp life detected	5 blinks	—	OFF	3 blinks
Lamp did not ignite	5 blinks	—	OFF	4 blinks
Lamp extinguished during normal operation	5 blinks	—	OFF	5 blinks
Lamp extinguished during run-up phase	5 blinks	—	OFF	6 blinks
Lamp voltage got error	5 blinks	—	OFF	7 blinks
Lamp ballast got error	5 blinks	—	OFF	8 blinks
Ballast watt value is out of range (Lamp Normal & Eco mode)	5 blinks	_	OFF	9 blinks
Lamp ballast Communication error	5 blinks	—	OFF	10 blinks
Lamp ballast power error	5 blinks	—	OFF	11 blinks
Fan-1 error	6 blinks	—	OFF	1 blinks
Fan-2 error	6 blinks	—	OFF	2 blinks
Fan-3 error	6 blinks	—	OFF	3 blinks
Fan-4 error	6 blinks	_	OFF	4 blinks
Fan-5 error	6 blinks	—	OFF	5 blinks
Case Open	7 blinks	—	OFF	OFF
DAD1000 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 Ready 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.

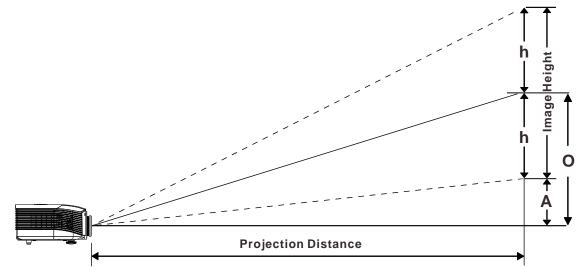
For more detail information check http://www.hdmi.org/learningcenter/faq.aspx#49

SPECIFICATIONS

Specifications

Model	H5095
Display type	0.65" 1080P DC2 TypeA
Resolution	1920x1080
Projection distance	1.5 meters ~ 7 meters
Projection screen size	35.1" ~ 205.3"
Projection lens	Manual Zoom
Throw ratio	1.54 ~ 1.93
Vertical keystone correction	±40°
Projection methods	Front, Rear, Desktop/Ceiling (Rear, Front)
Data compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA@60hz, Mac
SDTV/EDTV/ HDTV	480i, 576i, 480p, 576p, 720p, 1080i, 1080p
Video compatibility	NTSC (M, 3.58/4.43 MHz), PAL (B, D, G, H, I, M, N), SECAM (B, D, G, K, K1, L)
H-Sync	15, 31-91.4kHz
V-Sync	24~30Hz, 47 ~ 120Hz
Safety certification	FCC-B, cUL, UL, CE, C-tick, CCC, KC, CB, EAC
Operation temperature	5° ~ 35°C
Dimensions	431.11mm (W) x 344.16mm (D) x 180.57mm (H)
AC Input	AC Universal 100 – 240V
Power consumption	370W (Normal), 300W (ECO), <0.5W (Standby), < 2W (on by Lan)
Lamp	280W (Normal) / 230W (Eco)
Audio speaker	3W x 2
	VGA x 2
	DisplayPort x 1
	DVI-D x 1
	S-Video x 1
Input Terminals	Component x 1
	Composite video x 1
	HDMI x 1
	RCA stereo x 2
	Mini-jack stereo x 2
	VGA x 1
Output Terminals	PC audio out x 1
	RS-232C
	RJ45
	Screen trigger: DC Jack x 1 (DC12V 200mA output function)
Control Terminals	wire remote
	USB (type B) only for service/mouse control
	USB (type A) only for power supply; WHDI
	3D sync
Security	Kensington lock

Projection Distance vs. Projection Size (1080P)



Projection Distance and Size Table

		TELE				Wide		
Distance (m)	1.71	3.42	4.27	8.55	1.70	3.41	6.82	10.23
Diagonal (")	40	80	100	200	50	100	200	300(*)
Image Width (mm)	886	1771	2214	4428	1107	2214	4428	6641
Image Height (mm)	498	996	1245	2491	623	1245	2491	3736
h (mm)	249	498	623	1245	311	623	1245	1868
O (mm)	299	598	747	1494	374	747	1494	2241
A (mm)	50	100	125	249	62	125	249	374
Note:								

(*) Overdrive.

Long throw projection lens: TR: 1.93 ~ 2.9; offset=60%

		TELE				Wide			
Distance (m)	2.57	6.42	12.84	19.26	2.14	6.41	12.82	19.23	
Diagonal (")	40	100	200	300	50	150	300	450	
Image Width (mm)	886	2214	4428	6641	1107	3321	6641	9962	
Image Height (mm)	498	1245	2491	3736	623	1868	3736	5604	
h (mm)	249	623	1245	1868	311	934	1868	2802	
O (mm)	299	747	1494	2241	374	1121	2241	3362	
A (mm)	50	125	249	374	62	187	374	560	

		TELE						
Distance (m)	0.69	1.38	1.72	2.58				
Diagonal (")	40	80	100	150				
Image Width (mm)	886	1771	2214	3321				
Image Height (mm)	498	996	1245	1868				
h (mm)	249	498	623	934				
O (mm)	299	598	747	1121				
A (mm)	50	100	125	187				

New Short throw projection lens: TR: 0.778; offset=60%

Semi Short throw projection lens: TR: 1.1 ~ 1.3; offset=60%

		TELE				Wide			
Distance (m)	1.15	2.88	5.76	8.92	1.22	3.65	7.31	9.01	
Diagonal (")	40	100	200	310	50	150	300	370	
Image Width (mm)	886	2214	4428	6863	1107	3321	6641	8191	
Image Height (mm)	498	1245	2491	3860	623	1868	3736	4607	
h (mm)	249	623	1245	1930	311	934	1868	2304	
O (mm)	299	747	1494	2316	374	1121	2241	2764	
A (mm)	50	125	249	386	62	187	374	461	

Super Long throw projection lens: TR: 3 ~ 5; offset=60%

		TELE				WIDE			
Distance (m)	3.32	11.07	16.60	19.92	3.32	6.64	13.28	19.92	
Diagonal (")	30	100	150	180	50	100	200	300	
Image Width (mm)	664	2214	3321	3985	1107	2214	4428	6641	
Image Height (mm)	374	1245	1868	2241	623	1245	2491	3736	
h (mm)	187	623	934	1121	311	623	1245	1868	
O (mm)	224	747	1121	1345	374	747	1494	2241	
A (mm)	37	125	187	224	62	125	249	374	

offset % = $O/(2xh) \times 100\%$ O=A+h h=(1/2) × (image height)

Timing Mode Table

Signal	Resolution	H-Sync (KHz)	V-Sync (Hz)	Composite S-Video	Component	RGB (Analog)	DP/DVI HDMI (Digital)
NTSC	_	15.7	60.0	0		_	—
PAL/SECAM	—	15.6	50.0	0	_	—	—
	640 x 400	37.9	85.1	—	—	0	0
	720 x 400	31.5	70.1	—	—	0	0
	720 x 400	37.9	85.0	—	—	0	0
	640 x 480	31.5	60.0	—	_	0	0
	640 x 480	37.9	72.8	—	_	0	0
	640 x 480	37.5	75.0	_	_	0	0
	640 x 480	43.3	85.0	—	_	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	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	0
	1024 x 576	35.8	60.0	_	_	0	0
	1024 x 600	37.3	60.0	—	_	0	0
	1024 x 600	41.5	65.0	—	_	0	0
	1024 x 768	48.4	60.0	—	_	0	0
	1024 x 768	56.5	70.1	—		0	0
	1024 x 768	60.0	75.0	—	_	0	0
	1024 x 768	68.7	85.0	—	_	0	0
VESA	1024 x 768	97.6	120.0	—	_	0	0
VLOA	1024 x 768	99.0	120.0	—	_	0	0
	1152 x 864	67.5	75.0	—	—	0	0
	1280 x 720	45.0	60.0	—	_	0	0
	1280 x 720	90.0	120.0	—	_	0	0
	1280 x 768	47.4	60.0	—	_	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	64.0	60.0	_		0	0
	1280 x 1024	80.0	75.0	_		0	0
	1280 x 1024	91.1	85.0	—	—	0	0
	1280 x 960	60.0	60.0	—	_	0	0
	1280 x 960	85.9	85.0	—	_	0	0
	1360 x 768	47.7	60.0	—	_	0	0
	1400 x 1050	65.3	60.0	_	_	0	0
	1440 x 900	55.5	59.9	—	_	0	0
	1440 x 900	55.9	59.9	—	_	0	0
	1440 x 900	70.6	75.0	—	_	0	0
	1600 x1200	75.0	60.0	—	_	0	0

Signal	Resolution	H-Sync (KHz)	V-Sync (Hz)	Composite S-Video	Component	RGB (Analog)	DP/DVI HDMI (Digital)
	1680 x 1050	64.7	59.9	—	—	0	0
	1680 x 1050	65.3	60.0	—	—	0	0
	1920 x 1200	74.0	60.0	—	—	0	0
	1920 x 1080	67.5	60.0	—		0	0
	640 x 480	35.0	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	15.7	60.0	—	0	—	0
5010	576i	15.6	50.0	—	0	—	0
	576p	31.3	50.0	—	0	_	0
EDTV	480p	31.5	60.0	—	0	_	0
	720p	37.5	50.0	—	0	_	0
	720p	45.0	60.0	—	0	_	0
	1080i	33.8	60.0	—	0	—	0
	1080i	28.1	50.0	—	0	—	0
HDTV	1080p	27.0	24.0	—	0	—	0
	1080p	28.0	25.0	—	0	—	0
	1080p	33.7	30.0	—	0	—	0
	1080p	56.3	50.0	—	0	—	0
	1080p	67.5	60.0	—	0	—	0

O: Frequency supported

-: Frequency not supported

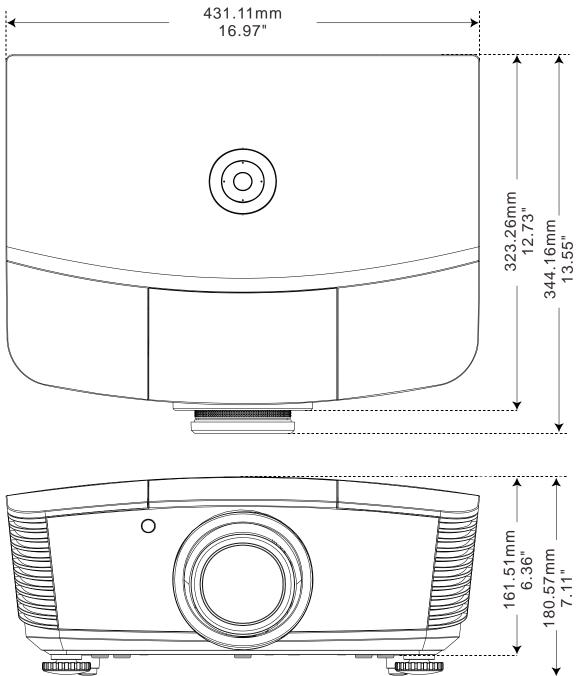
Resolution others than native resolution may be display with uneven size of text or line.

★ 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.

★ 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, CB, EAC

APPENDIX I

RS-232C Protocol

RS232 Setting

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

Control Command Structure

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

Operation Command

Note:

"CR" mean Carriage Return

XX=00-98, projector's ID, XX=99 is for all projectors

Return Result P=Pass / F=Fail

n: 0:Disable/1: Enable/Value(0~9999)

	Command Group 00									
ASCII	HEX	Function	Description	Return Result						
VXXS0001	56h Xh Xh 53h 30h 30h 30h 31h 0Dh	Power On		P/F						
VXXS0002	56h Xh Xh 53h 30h 30h 30h 32h 0Dh	Power Off		P/F						
VXXS0003	56h Xh Xh 53h 30h 30h 30h 33h 0Dh	Resync		P/F						
VXXG0004	56h Xh Xh 47h 30h 30h 30h 34h 0Dh	Get Lamp Hours		Pn/F						
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@xxx</u> x.xxx.xx	P/F						

Command Group 01				
ASCII	HEX	Function	Description	Return Value
VXXG0101	56h Xh Xh 47h 30h 31h 30h 31h 0Dh	Get Brightness	n=0~100	Pn/F
VXXS0101n	56h Xh Xh 53h 30h 31h 30h 31h nh 0Dh	Set Brightness	n=0~100	P/F
VXXG0102	56h Xh Xh 47h 30h 31h 30h 32h 0Dh	Get Contrast	n=0~100	Pn/F
VXXS0102n	56h Xh Xh 53h 30h 31h 30h 32h nh 0Dh	Set Contrast	n=0~100	P/F
VXXG0103	56h Xh Xh 47h 30h 31h 30h 33h 0Dh	Get Color	n=0~100	Pn/F
VXXS0103n	56h Xh Xh 53h 30h 31h 30h 33h nh 0Dh	Set Color	n=0~100	P/F
VXXG0104	56h Xh Xh 47h 30h 31h 30h 34h 0Dh	Get Tint	n=0~100	Pn/F
VXXS0104n	56h Xh Xh 53h 30h 31h 30h 34h nh 0Dh	Set Tint	n=0~100	P/F
VXXG0105	56h Xh Xh 47h 30h 31h 30h 35h 0Dh	Get Sharpness	0~31	Pn/F
VXXS0105n	56h Xh Xh 53h 30h 31h 30h 35h nh 0Dh	Set Sharpness	0~31	P/F
VXXG0106	56h Xh Xh 47h 30h 31h 30h 36h 0Dh	Get Color Temperature	0:Warm 1:Normal 2:Cold	Pn/F
VXXS0106n	56h Xh Xh 53h 30h 31h 30h 36h nh 0Dh	Set Color Temperature	0:Warm 1:Normal 2:Cold	P/F
VXXG0107	56h Xh Xh 47h 30h 31h 30h 37h 0Dh	Get Gamma	0:1.8 1:2.0 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
VXXS0208	56h Xh Xh 53h 30h 32h 30h 38h 0Dh	Select Component		P/F
VXXS0210	56h Xh Xh 53h 30h 32h 31h 30h 0Dh	Select Display Port		P/F

Command Group 02				
ASCII	HEX	Function	Description	Return Value
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: Component 8: Display Port	Pn/F

Command Group 03				
ASCII	HEX	Function	Description	Return Value
VXXG0301	56h Xh Xh 47h 30h 33h 30h 31h 0Dh	Get Aspect Ratio	0:Fill 1:4:3 2:16:9 3:Letter Box 4:Native 5:Theater Zoom	Pn/F
VXXS0301n	56h Xh Xh 53h 30h 33h 30h 31h nh 0Dh	Set Aspect Ratio	0:Fill 1:4:3 2:16:9 3:Letter Box 4:Native 5:Theater Zoom	P/F
VXXG0302	56h Xh Xh 47h 30h 33h 30h 32h 0Dh	Get Blank	0:Unblank 1:Blank	Pn/F
VXXS0302n	56h Xh Xh 53h 30h 33h 30h 32h nh 0Dh	Set Blank	0:Unblank 1:Blank	P/F
VXXG0304	56h Xh Xh 47h 30h 33h 30h 34h 0Dh	Get Freeze	0:Unfreeze 1:Freeze	Pn/F
VXXS0304n	56h Xh Xh 53h 30h 33h 30h 34h nh 0Dh	Set Freeze	0:Unfreeze 1:Freeze	P/F
VXXG0305	56h Xh Xh 47h 30h 33h 30h 35h 0Dh	Get Volume	n=0~10	Pn/F
VXXS0305n	56h Xh Xh 53h 30h 33h 30h 35h nh 0Dh	Set Volume	n=0~10	P/F
VXXG0308	56h Xh Xh 47h 30h 33h 30h 38h 0Dh	Get Projection Mode	0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling	Pn/F
VXXS0308n	56h Xh Xh 53h 30h 33h 30h 38h nh 0Dh	Set Projection Mode	0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling	P/F
VXXG0309	56h Xh Xh 47h 30h 33h 30h 39h 0Dh	Get Vertical Keystone Value	n=-40~+40	Pn/F
VXXS0309n	56h Xh Xh 53h 30h 33h 30h 39h nh 0Dh	Set Vertical Keystone Value	n=-40~+40	P/F
VXXG0311	56h Xh Xh 47h 30h 33h 31h 31h 0Dh	Get Zoom	n=-10~+10	Pn/F
VXXS0311n	56h Xh Xh 53h 30h 33h 31h 31h nh 0Dh	Set Zoom	n=-10~+10	P/F
VXXG0315	56h Xh Xh 47h 30h 33h 31h 35h 0Dh	Get 3D Sync	0:Off 1:DLP-Link 2:IR	Pn/F

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