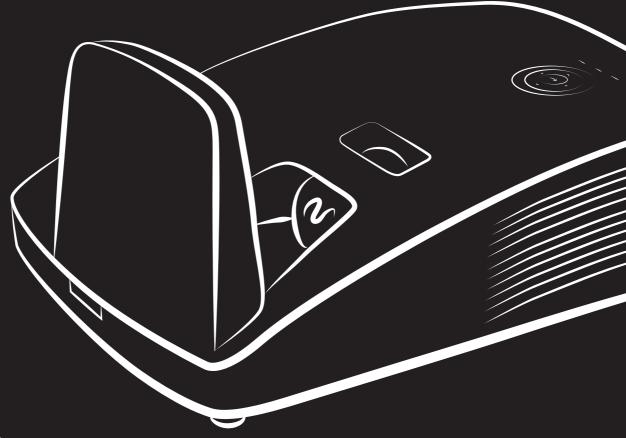




DH758UST / DH758USTIR Series





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Important Safety Information



∑ Important:

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

Symbols Used

Warning symbols are used on the unit and in this manual to alert you of hazardous situations. The following styles are used in this manual to alert you to important information.

Note:

Provides additional information on the topic at hand.



Important:

Provides additional information that should not be overlooked.



Caution:

Alerts you to situations that may damage the unit.



!_ Warning:

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

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

"Push the Menu button on the remote control to open the Main menu."

General Safety Information

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

Projector Installation Notice

- Place the projector in a horizontal position
 - **The tilt angle of the projector should not exceed 15 degrees**, nor should the projector be installed in any way other than the desktop and ceiling mount, otherwise lamp life could decrease dramatically, and may lead to other **unpredictable damages**.
- Allow at least 50 cm clearance around the exhaust vent.
- Ensure that the intake vents do not recycle hot air from the exhaust vent.
- When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed operation temperature while the projector is running, and the air intake and exhaust vents are unobstructed.
- All enclosures should pass a certified thermal evaluation to ensure that the projector does not recycle exhaust air, as this may cause the device to shutdown even if the enclosure temperature is with the acceptable operation temperature range.

Verify Installation Location

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

Cooling notes

Air outlet

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

Air inlet

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

Power Safety

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

Replacing the Lamp

Replacing the lamp can be hazardous if done incorrectly. See *Replacing the Projection Lamp* on page 45 for clear and safe instructions for this procedure. Before replacing the lamp:

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



!\ Caution:

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

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

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

Cleaning the Projector

- ➤ Unplug the power cord before cleaning. See *Cleaning the Projector* on page 50.
- > Allow the lamp to cool for about one hour.

Regulatory Warnings

Before installing and using the projector, read the regulatory notices in the *Regulatory Compliance* section on page 64.

Important Recycle Instructions:

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

Symbol Explanations



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

About this manual

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

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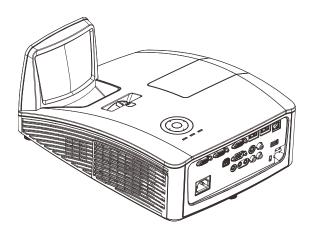
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GETTING STARTED

Packing Checklist

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



DLP PROJECTOR (DH758UST SERIES)

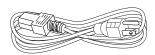
INTERACTIVE PROJECTOR (DH758USTIR SERIES)



REMOTE CONTROL (WITH TWO AAA BATTERIES)



CD-ROM (This User's manual)



Power cord



QUICK START CARD



VGA CABLE



WARRANTY CARD

THE FOLLOWING ITEMS ONLY FOR DH758USTIR SERIES



CD-ROM (INTERACTIVE DRIVER AND SOFTWARE)



USB CABLE (A-TAPE TO MINI)



PENS BOX (WITH FOUR AAA BATTERIES & FOUR TIPS)

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

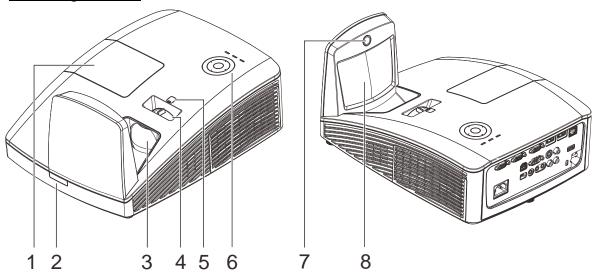


Caution:

Avoid using the projector in dusty environments.

Views of Projector Parts

Front-right View



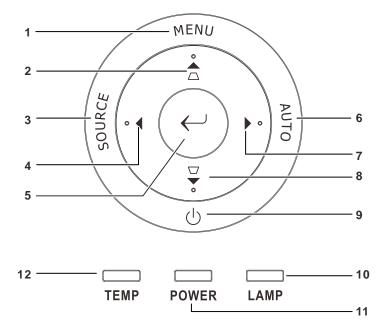
Ітем	LABEL	DESCRIPTION	SEE PAGE:
1.	Lamp cover	Removes cover to replace lamp module	
2.	IR receiver	Receives IR signal from remote control	
3.	Lens	Projection Lens	
4.	Focus ring	Focuses the projected image	
5.	Manual Lens shift	For Image vertical shift adjustment (Reserved)	
6.	Function keys	See Top view—On-screen Display (OSD) buttons and LEDs.	3
7.	Interactive Camera (*)	Interactive function use	
8.	Aspheric mirror	Reflects images	

/ 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.

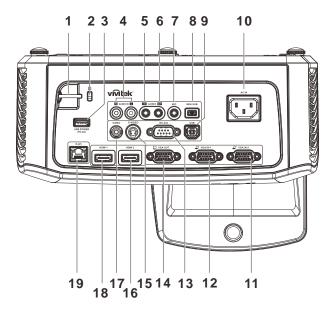
Note: (*)Available in DH758USTIR Series.

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



İTEM	LABEL	DESCRIPTION		SEE PAGE:
1.	MENU	Opens and exi	ts OSD menus	
2.	\triangle	Navigates in th Quick Menu –		16
3.	SOURCE	Enter the Sour	ce menu	
4.	◀	Navigates and	changes settings in the OSD	16
5.	\leftarrow	Enter or confir	m highlighted OSD menu item	
6.	AUTO	Optimizes ima	ge size, position, and resolution	
7.	>	Navigates and	Navigates and changes settings in the OSD	
8.	\overline{igcup}	Navigates in the OSD Quick Menu – For Keystone		16
9.	்	Turns the projector On or Off		
10.	LAMP LED	Red	Lamp Fail	
10.	LAWIF LLD	Flashing	Error code	
11.	POWER LED	Green	Ready to power on (Standby) Lamp Lit , System stable Over Temperature	54
		Flashing	System initial, Power on, Cooling, Error code	
12.	TEMP LED	Red	Over Temperature	

Rear view



Ітем	LABEL	DESCRIPTION	SEE PAGE:	
1.	Security bar	For security and authorized usage		
2.	Kensington lock	Secure to permanent object with a Kensington® Lock system 52		
3.	USB POWER (5V-2A)	Connect the USB cable for power supply.(For DT01 u	ise)	
4.	AUDIO L/R (For VIDEO/ S-VIDEO)	Connect an AUDIO cable from the audio device		
5.	AUDIO IN (For VGA-1/ VGA-2)	Connect an AUDIO cable from the audio device		
6.	AUDIO OUT	Connect an AUDIO cable to an audio amplifier		
7.	MIC	Connect the Microphone for use		
8.	Mini USB (*)	Connect the USB cable to PC(for Interactive function)		
9.	USB	Connect the USB cable from a computer		
10.	AC IN	Connect the POWER cable 11		
11.	VGA – 2	Connect the RGB cable from a computer or compone	nts device	
12.	VGA – 1	Connect the RGB cable from a computer or compone	nts device	
13.	RS-232	Connect RS-232 serial port cable for remote control		
14.	VGA OUT	Connect the RGB cable to a display (Loop Thru only for VGA IN-1)		
15.	S-VIDEO	Connect the S-video cable from a video device		
16.	HDMI 2	Connect the HDMI cable from a HDMI device		
17.	VIDEO	Connect the composite cable from a video device		
18.	HDMI 1	Connect the HDMI cable from a HDMI device		
19.	RJ – 45	Connect a LAN cable from Ethernet		

Note:

If your video equipment has various input sources, it is recommended to connect in priority of HDMI/DVI, component (thru VGA), Composite for better picture quality.

Note:

User should install driver before used Interactive function. For more detail see driver disc.

Note:

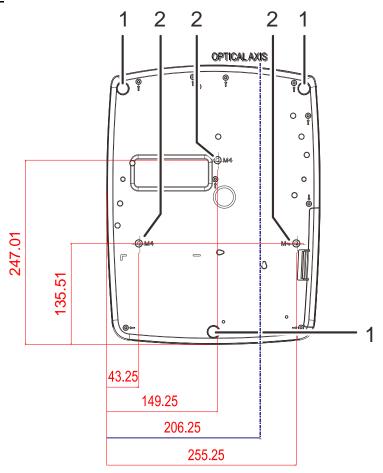
(*)Available in DH758USTIR Series.



\ 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	14
2.	Ceiling support holes	Contact your dealer for information on mounting the projector on a ceiling	

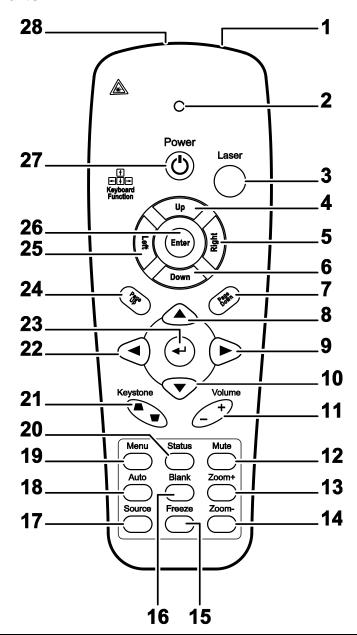
Note:

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





- **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.

Note:

Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

ITEM	LABEL	DESCRIPTION	SEE PAGE:
1.	IR transmitter	Transmits signals to projector	
2.	Status LED	Lights when the remote control is used	
3.	Laser	Press to operate the on-screen pointer	
4.	Up	Up arrow when connected through USB to a PC	
5.	Right	Right arrow when connected through USB to a PC	
6.	Down	Down arrow when connected through USB to a PC	
7.	Page Down	Page down when connected through USB to a PC	
8.	Up cursor	Navigates in the OSD	
9.	Right cursor	Navigates and changes settings in the OSD	16
10.	Down cursor	Navigates in the OSD	
11.	Volume +/-	Adjusts volume	15
12.	Mute	Mutes the built-in speaker	
13.	Zoom+	Zoom in	
14.	Zoom-	Zoom out	
15.	Freeze	Freeze/unfreezes the on-screen picture	
16.	Blank	Makes the screen blank	
17.	Source	Detects the input device	
18.	Auto	Auto adjustment for phase, tracking, size, position	
19.	Menu	Opens or exit the OSD	16
20.	Status	Opens the OSD Status menu (the menu only opens when an input device is detected)	31
21.	Keystone top/bottom	Corrects image-trapezoid (wider top/bottom) effect	15
22.	Left cursor	Navigates and changes settings in the OSD	
23.	Enter	Changes settings in the OSD	
24.	Page Up	Page up when connected through USB to a PC 16	
25.	Left	Left arrow when connected through USB to a PC	
26.	Enter	Enter key when connected through USB to a PC	
27.	Power	Turns the projector on or off	11
28.	Laser	Use as on-screen pointer. DO NOT POINT IN EYES.	

(Caution:

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

Remote Control Operating Range

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

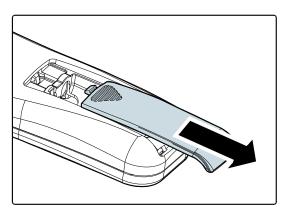
Projector and Remote Control Buttons

The projector can only be operated using the remote control. All operations can be carried out with the remote control.

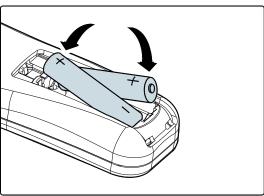
SETUP AND OPERATION

Inserting the Remote Control Batteries

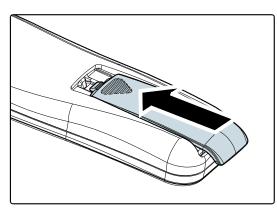
1 Remove the battery compartment cover by sliding the cover in the direction of the arrow.



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



3. Replace the cover.





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

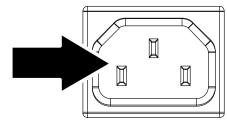
Starting and Shutting down the Projector

- Connect the power cord to the projector. Connect the other end to a wall outlet.
- Turn on the connected devices.
- Ensure the POWER LED displays a solid green. Then press the POWER button of the remote to turn on the projector.

The projector splash screen displays and connected devices are detected.

See Setting an Access Password (Security Lock) on page 12 if security lock is enabled.

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







- HDMI1/MHL: High-Definition Multimedia Interface 1 /MHL
- HDMI2: High-Definition Multimedia Interface 2
- VGA 1/VGA 2: Analog RGB
 Component: DVD input YCbCr / YPbPr, or HDTV input YPbPr via HD15 connector
- S-Video: Super video (Y/C separated)
- Composite Video: Traditional composite video
- **5.** When the "Power Off? /Press Power again" message appears, press the **POWER** button. The projector turns off.





Caution:

Do not unplug the power cord until the POWER LED solid green-indicating the projector has cooled down.

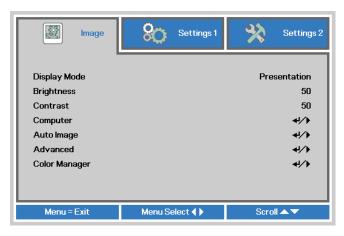
Setting an Access Password (Security Lock)

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 16 and *Setting the OSD Language* on page 17 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.



- 3. Press (Enter) / to enter the Advanced 1 sub menu. Press the cursor ▼ button to select Security Lock.
- Press the cursor **◄►** button to enter and enable or disable security lock function.

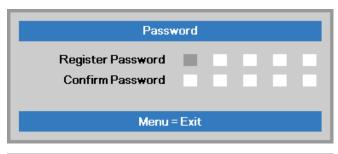
A password dialog box automatically appears.



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.

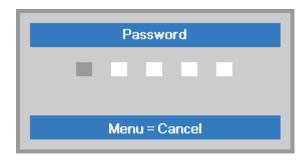
Press the cursor buttons in any order to set the password. Push the **MENU** button to exit the dialog box.





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

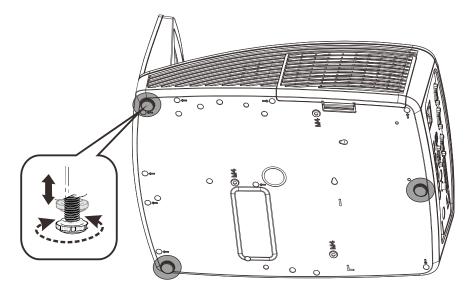
The service center will validate the owner and help reset the password.



Adjusting the Projector Level

Take note of the following when setting up the projector:

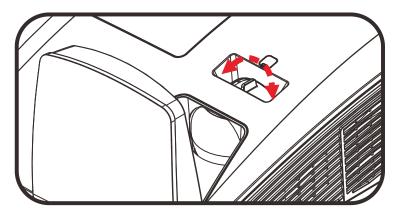
- The projector table or stand should be level and sturdy.
- Position the projector so that it is perpendicular to the screen.
- Ensure the cables are in a safe location. You could trip over them.



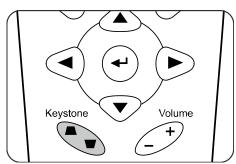
To adjust the angle of the picture, turn the tilt-adjuster right or left until the desired angle has been achieved.

Adjusting the Focus and Keystone

Use the Image-focus control (on the projector only) to sharpen the projected image



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

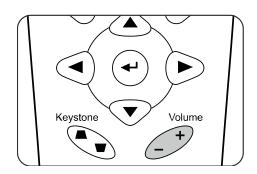


3. The keystone control appears on the display.



Adjusting the Volume

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



Volume 5

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



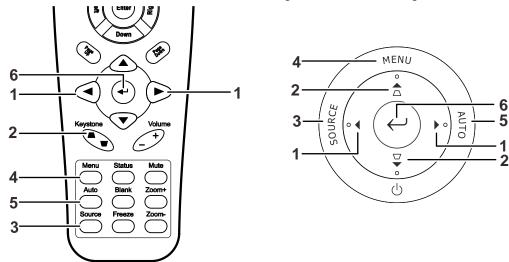
ON-SCREEN DISPLAY (OSD) MENU SETTINGS

OSD Menu Controls

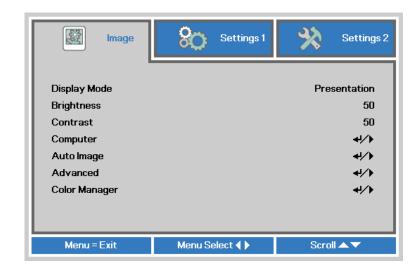
The projector has an OSD that lets you make image adjustments and change various settings.

Navigating the OSD

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



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



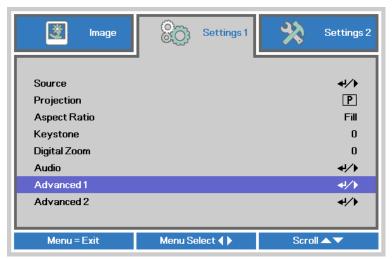
Note:

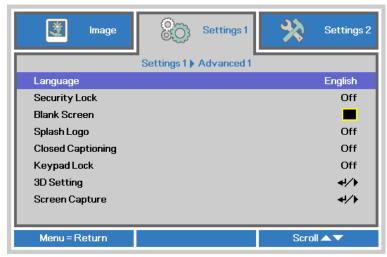
Depending on the video source, not all items in the OSD are available. For example, the **Horizontal/Vertical Position** items in the **Computer** menu can only be modified when connected to a PC. Items that are not available cannot be accessed and are grayed out.

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.





- 3. Press the cursor button until the language you want is highlighted.
- 4. Press the **MENU** button four times to close the OSD.

OSD Menu Overview

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

Main				
Menu	Sub Menu			Settings
Image	Display Mode			Presentation, Bright, Game, Movie, TV, sRGB, Blackboard, User
	Brightness			0~100
	Contrast			0~100
	Computer	Horizontal Position		-5~5 (depend on Autolock)
		Vertical Position		-5~5 (depend on Autolock)
		Frequency		0~31
		Tracking		-5~5
	Auto Image			
	Advanced	Brilliant Color		0~10
		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
	Color Manager	<u> Red</u>	Hue, Saturation, Gain	0~100
		Green	Hue, Saturation, Gain	0~100
		Blue	Hue, Saturation, Gain	0~100
		Cyan	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, 2.35:1
	Keystone			-40~40
	Digital Zoom			-10~10
	Audio	Volume		0~10
		Mute		Off, On
	Advanced 1	Language		English, Français, Deutsch, Español, Português, 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,
				תירבע, فارسى
		Security Lock		Off, On
		Blank Screen		Blank, Red, Green, Blue, White
		Splash Logo		Std., Off, User
		Closed Captionin	g	Off, On
		KeypadLock		Off, On
		3D Setting	「 ^{3D}	Off, DLP-Link, IR
			3D Sync Invert	Off, On
			3D Format	Frame Sequential, Top/Bottom, Side-By- Side, Frame Packing (3D Frame Packing HDMI source only)
		Screen Capture		
	Advanced 2	Test Pattern		None, Grid, White, Red, Green, Blue, Black
		H Image Shift		-50~50
		V Image Shift		-50~50

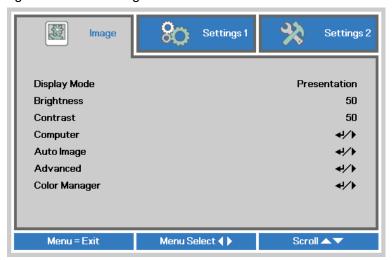
Main				
Menu	Sub Menu			Settings
Settings 2	Auto Source			Off, On
	No Signal Power Off			0~180
	Auto Power On			Off, On
	Lamp Mode			ECO, Normal, Dynamic ECO
	Reset All			
	Status	Active Source		
		Video Information		
		Lamp Hours(ECO, Norn Dynamic ECO)	nal,	
	Advanced 1	Menu Position		Center, Down, Up, Left, Right
		Translucent Menu		0%, 25%, 50%, 75%, 100%
		Low Power Mode		Off, On, On By Lan
		Fan Speed		Normal, High
		Lamp Hour Reset		
		Projector ID		00-98
		Network	Network State	Connect, Disconnect
			DHCP	Off, On
			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
	Advanced 2	Sleep Timer		0~600
		Source Filter	┌ HDMI1/MHL	Disable, Enable
			HDMI2	Disable, Enable
			VGA1	Disable, Enable
			VGA2	Disable, Enable
			S-Video	Disable, Enable
			Composite Video	Disable, Enable

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



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
Color Manager	Press

Computer Menu

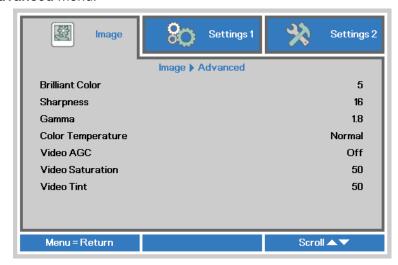
Press the **MENU** button to open the **OSD** menu. Press $\blacktriangleleft \triangleright$ to move to the **Image** menu. Press $\blacktriangle \blacktriangledown$ to move to the **Computer** menu and then press **Enter** or \blacktriangleright . Press $\blacktriangle \blacktriangledown$ to move up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



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

Advanced Feature

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



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 ◀▶ buttons to enter and enable or disable the Automatic Gain Control for video source.
Video Saturation	Press the ◀▶ buttons to enter and adjust the video saturation.
Video Tint	Press the ◀▶ buttons to enter and adjust the video tint/hue.

Color Manager

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



Ітем	DESCRIPTION
Red	Select to enter the Red Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Green	Select to enter the Green Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Blue	Select to enter the Blue Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Cyan	Select to enter the Cyan Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Magenta	Select to enter the Magenta Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Yellow	Select to enter the Yellow Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
White	Select to enter the White Color Manager. Press the ◀▶ buttons to adjust the Red, Green, and Blue.

Settings 1 Menu

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



Ітем	DESCRIPTION
Source	Press the cursor
Projection	Press the cursor ◀▶ button to enter and choose from four projection methods.
Aspect Ratio	Press the cursor ◀▶ button to enter and adjust the video aspect ratio.
Keystone	Press the cursor ◀▶ button to enter and adjust the display keystone.
Digital Zoom	Press the cursor ◀▶ button to enter and adjust the Digital Zoom menu.
Audio	Press
Advanced 1	Press
Advanced 2	Press

<u>Audio</u>

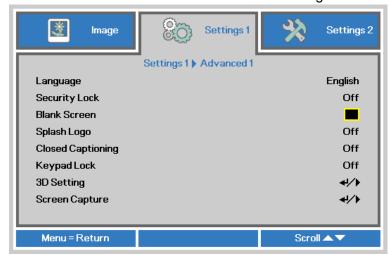
Press the **Menu** button to open the **OSD** menu. Press $\blacktriangleleft \triangleright$ to move to the **Settings 1** menu. Press $\blacktriangledown \blacktriangle$ to move to the **Audio** menu and then press **Enter** or \blacktriangleright . Press $\blacktriangledown \blacktriangle$ to move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



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

Advanced 1 Feature

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

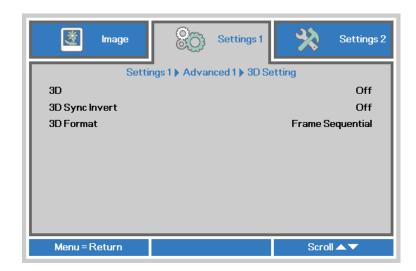


İTEM	DESCRIPTION
Language	Press the cursor ◀▶ button to enter and select a different localization Menu.
Security Lock	Press the cursor ◀▶ button to enter and enable or disable security lock function.
Blank Screen	Press the cursor ◀▶ button to enter and select different color to blank the screen.
Splash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

Note:

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

3D Setting



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

Note:

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

 Each type of glasses has their own configuration instructions. Please follow the configuration instructions that come with your glasses to finish the setup process.

Note:

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

Advanced 2 Feature

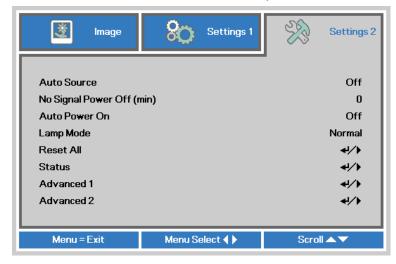
Press the **Menu** button to open the **OSD** menu. Press ◀▶ to move to the **Settings 1** menu. Press ▲ ▼ to move to the **Advanced 2** menu and then press **Enter** or ▶. Press ▲ ▼ to move up and down in the **Advanced 2** menu. Press ◀▶ to enter and change values for setting.



İTEM	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.



Ітем	DESCRIPTION			
Auto Source	Press the cursor ◀▶ button to enter and enable or disable automatic source detection.			
No Signal Power Off (min.)	Press the cursor ◀▶ button to enter and enable or disable automatic shutdown of lamp when no signal.			
Auto Power On	Press the cursor ◀▶ button to enter and enable or disable automatic power On when AC power is supplied.			
Lamp Mode	Press the cursor ◀▶ button to enter and select the lamp mode for higher brightness or lower brightness to save lamp life.			
Reset All	Press			
Status	Press			
Advanced 1	Press			
Advanced 2	Press			

Note .

"Dynamic ECO": Press BLANK button, Lamp will dim to 30% automatically.

<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.



ITEM	DESCRIPTION		
Active Source	Display the activated source.		
Video Information	Displays resolution/video information for RGB source and color standard for Video source.		
Lamp Hours	Lamp hour used information is displayed. (Eco, Normal, Dynamic Eco)		
Serial Number	Showing serial number of product.		
Software Version	Showing system software version.		

Advanced 1 Feature

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

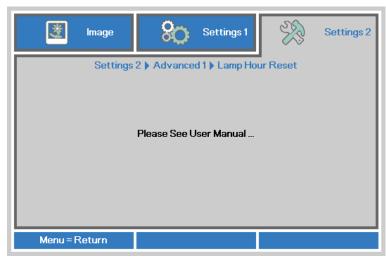


Ітем	DESCRIPTION			
Menu Position	Press ◀▶ button to enter and select different OSD location.			
Translucent Menu	Press ◀▶ button to enter and select OSD background translucent level.			
Low Power Mode	Press ◀▶ button to enter and turn Low Power Mode Off, On or On By Lan.			
Fan Speed	Press the cursor ◀► button to enter and toggle between Normal and High fan speeds. Note: We recommend selecting high speed in high temperatures, high humidity, or high altitude (higher than 1500m/4921ft) areas.			
Lamp Hour Reset	After replacing the lamp, this item should be reset. See page 33 for more information on <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			

Note:

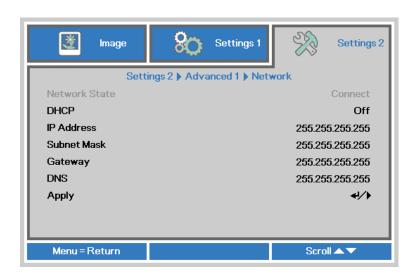
About "On By Lan", RJ45 will support to be waked up in this mode (Under 6W) but scalar won't.

Lamp Hour Reset

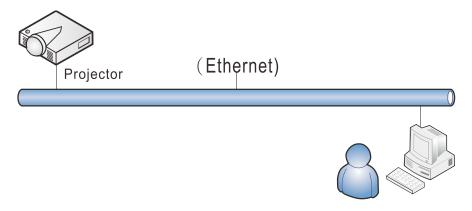


Please refer to *Resetting the Lamp* on page 47 to reset the lamp hour counter.

Network



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



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.

Supported External Devices

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

http://www.crestron.com/

This projector is supported by AMX (Device Discovery).

http://www.amx.com/

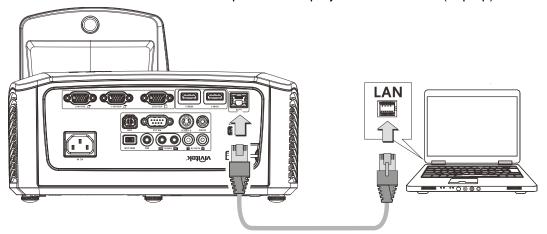
This projector is compliant to support Extron device(s) for reference.

http://www.extron.com/

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.

LAN RJ45

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

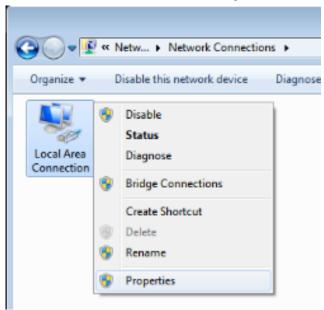


2. On the PC (Laptop), select **Start** → **Control Panel** → **Network and Internet**.

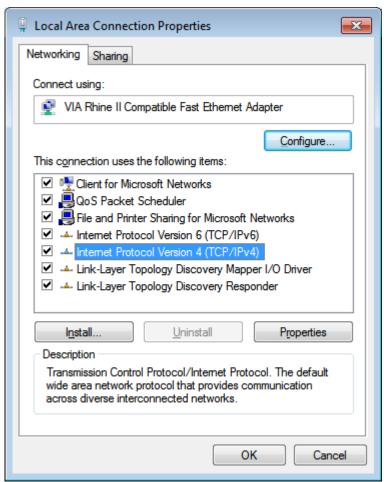




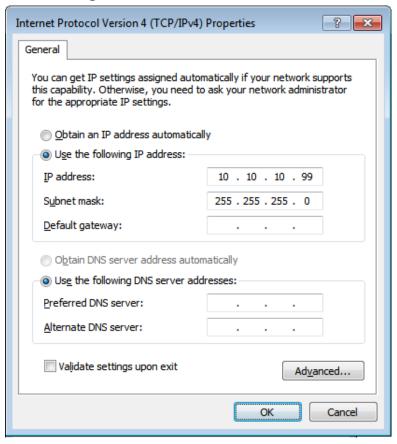
3. Right-click on Local Area Connection, and select Properties.



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



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



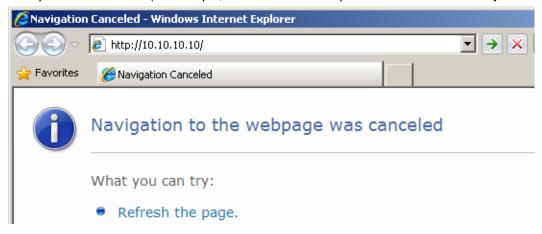
- 7. Press the **Menu** button on the projector.
- 8. Select Settings 2 → Advanced 1 → RS232 → Network Option
- 9. After getting into **Network**, input the following:

▶ DHCP: Off

▶ IP Address: 10. 10. 10. 10 ▶ Subnet Mask: 255.255.255.0

Gateway: 0.0.0.0DNS Server: 0.0.0.0

- 11. Open a web browser (for example, Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher).



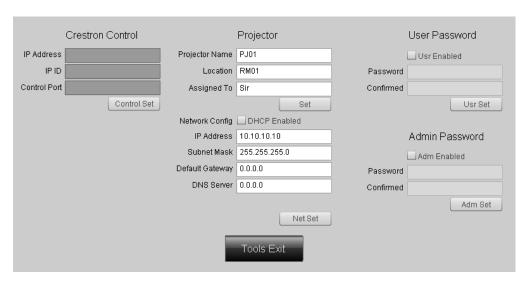
- 12. In the Address bar, input the IP address: 10. 10. 10. 10.
- 13. Press **←** (Enter) / ►.

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





Expansion Options



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 http://www.crestron.com/.

RS232 by Telnet Function

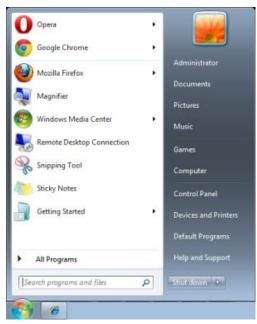
Besides projector connected to RS232 interface with "Hyper-Terminal" communication by dedicated RS232 command control, there is alternative RS232 command control way, so called "RS232 by TELNET" for LAN/RJ45 interface.

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.

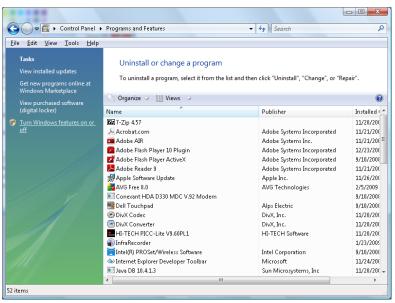
How to have TELNET enabled in Windows VISTA / 7

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.

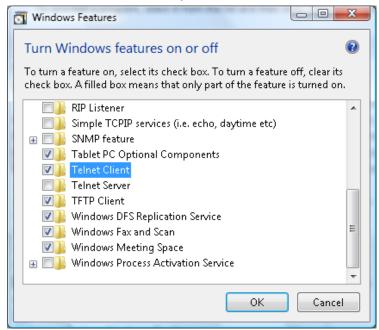
Open "Control Panel" in Windows VISTA



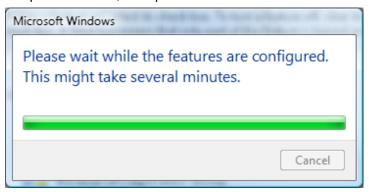
Open "Programs"



Select "Turn Windows features on or off" to open



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



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
- Limitation 1 for Telnet-Control: there is only one connection for Telnet-Control in one projector Limitation 2 for Telnet-Control: there is less than 50 bytes for successive network payload for Telnet-Control application.
 - Limitation 3 for Telnet-Control: there is less than 26 bytes for one complete RS232 command for Telnet-Control.
 - Limitation 4 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 **◄** ► to move to the **Settings 2** menu. Press **▲** ▼ to move to the **Advanced 2** menu and then press **Enter** or ►. Press **▲** ▼ to move up and down in the **Advanced 2** menu. Press **◄** ► to enter and change values for setting.



Ітем	DESCRIPTION		
Sleep Timer (min)	Press the cursor ◀▶ buttons to enter and set Sleep timer. The projector automatically turns off after the preset period of time.		
Source Filter	Press		

Source Filter

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



Ітем	DESCRIPTION			
HDMI1/MHL	Press the ◀▶ buttons to enter and enable or disable the HDMI1/ MHL-compatible source.			
HDMI2	Press the ◀▶ buttons to enter and enable or disable the HDMI2 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.			
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.



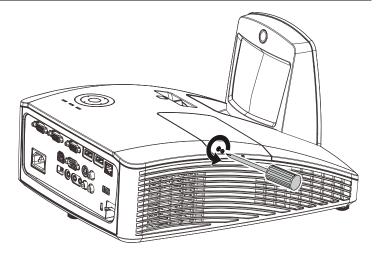
IF A LAMP EXPLODES

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.

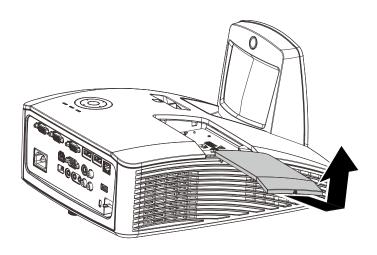
Open windows and doors for ventilation.

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

 Remove the single screw on the lamp compartment cover.

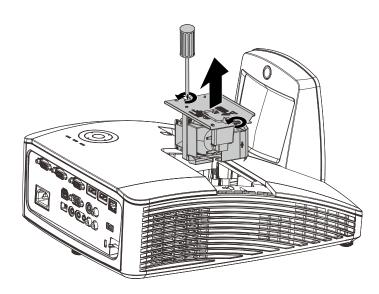


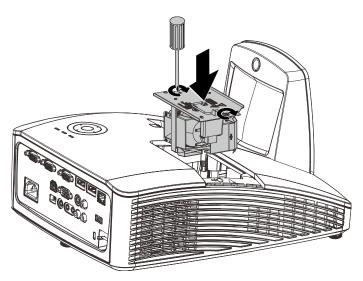
2. Remove the lamp compartment cover.



- **3.** Remove the two screws from the lamp module.
- **4** Lift the module handle up.
- **5.** Pull firmly on the module handle to remove the lamp module.
- 6. Reverse steps 1 to 5 to install the new lamp module.
 While installing, align the lamp module with the connector and ensure it is level to avoid damage.

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

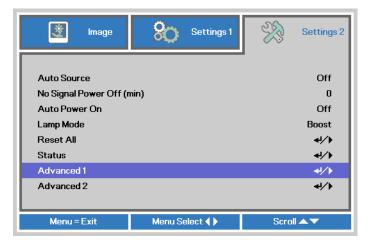




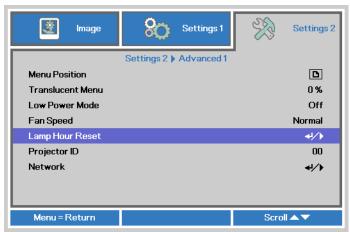
Resetting the Lamp

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

- 1. Press the **MENU** button to open the OSD menu.
- Press the cursor ◀► button to move to the Settings 2 menu. Press the cursor button to move down to Advanced 1 and press enter.



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



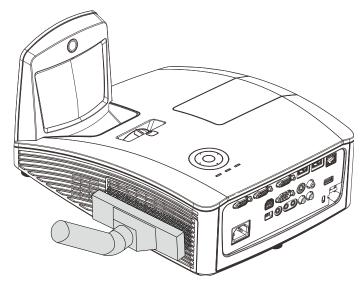
- **4.** Press the cursor ▶ or Enter button.
 - A message screen appears.
- **5.** Press **▼ ▲ ◆ ▶** buttons to reset the lamp hour.
- **6.** Press the **MENU** button to get back to **Settings 2**.



Cleaning the 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.

- Turn off the projector, and unplug the AC power cord from the AC outlet.
- 2. Cleaning the filter with a vacuum cleaner.





Caution:

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.

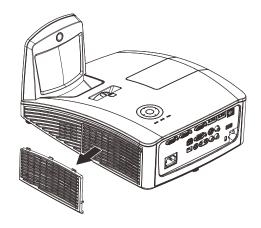
Replacing the Filter

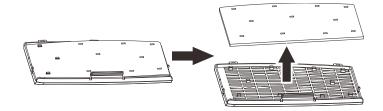
 Turn off the projector, and unplug the AC power cord from the AC outlet.
 Clean up the dust on the projector and around the air vents.
 Pull out the filter cover and

Pull out the filter cover and remove from the projector

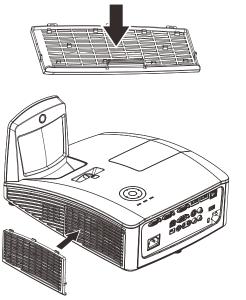
Use soft brush gently to clean the filter dust both side.

2. Or 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.





Waming:

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



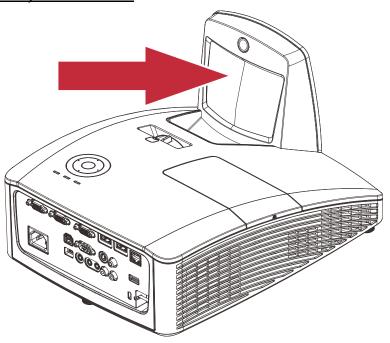
Important:

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.

Cleaning the Projector Mirror:



Remove dust with a "Bellows/Lens Blower" readily available from Camera shops to prevent scratching the mirror when subsequently wiped.



/!\ Cautions:

- 1. Always turn the projector off and allow to cool for at least 30 minutes prior to cleaning.
- 2. Never touch the projector mirror or Lens directly by hand.
- 3. Do not use abrasive cleaners, solvents or other harsh chemical cleaners.

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.



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

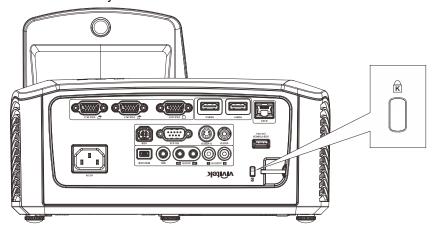


- **1.** Be sure to turn off and unplug the projector at least 30 minutes before cleaning. Failure to do so could result in a severe burn.
- **2.** Use only a dampened cloth when cleaning. Do not allow water to enter the ventilation openings on the projector.
- **3.** If a little water gets into the 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.

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:

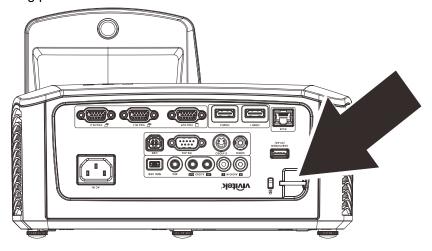
Contact your vendor for details on purchasing a suitable Kensington security cable.

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, http://www.Kensington.com.

Using the Security Bar

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

See the following picture.



TROUBLESHOOTING

Common problems and solutions

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

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

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

Tips for Troubleshooting

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

Try to pin point the problem and thus avoid replacing non-defective parts.

For example, if you replace batteries and the problem remains, put the original batteries back and go to the next step.

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

LED Error Messages

Error Code Messages	Power Led Green	LAMP LED RED	TEMP LED RED
Lamp Ready	ON	OFF	OFF
Start	Flashing	OFF	OFF
Cooling	Flashing	OFF	OFF
Over Temperature	OFF	OFF	ON
T1 error	3 blinks	1 blinks	OFF
Thermal Break Sensor error	4 blinks	OFF	OFF
G794 error	4 blinks	4 blinks	OFF
Lamp fail	5 blinks	OFF	OFF
Ballast temp over	5 blinks	1 blinks	OFF
Ballast circuit short	5 blinks	2 blinks	OFF
Lamp End of lamp life detected	5 blinks	3 blinks	OFF
Lamp did not ignite	5 blinks	4 blinks	OFF
Lamp extinguished during normal operation	5 blinks	5 blinks	OFF
Lamp extinguished during run-up phase	5 blinks	6 blinks	OFF
Lamp voltage too low	5 blinks	7 blinks	OFF
Ballast fail	5 blinks	8 blinks	OFF
Ballast communication fail	5 blinks	10 blinks	OFF
Ballast over temp	5 blinks	11 blinks	OFF
Restrike lamp fail 1	5 blinks	12 blinks	OFF
Restrike lamp fail 2	5 blinks	13 blinks	OFF
Lamp fail 1	5 blinks	14 blinks	OFF
Lamp fail 2	5 blinks	15 blinks	OFF
Fan 1 error	6 blinks	1 blinks	OFF
Fan 2 error	6 blinks	2 blinks	OFF
Fan 3 error	6 blinks	3 blinks	OFF
Fan 4 error	6 blinks	4 blinks	OFF
Case Open	7 blinks	OFF	OFF
DMD error	8 blinks	OFF	OFF
Color wheel error	9 blinks	OFF	OFF

In the event of an error, please disconnect the AC power cord and wait for one (1) minute before restarting the projector. If the Power or Lamp LEDs are still blinking or any other situation that isn't listed in the chart above, please contact your service center.

Image Problems

Problem: No image appears on the screen

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

Problem: The image is blurred

- 1. Adjust the Focus on the projector.
- 2. Press the Auto button on the remote control.

- 3. Ensure the projector-to-screen distance is within the specified range.
- 4. Check that the projector lens is clean.

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

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

Problem: The image is reversed

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

Problem: The image is streaked

- 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?

- 1. Recently, HDMI Licensing, LLC announced that cables would be tested as Standard or High-Speed cables.
- 2. 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.
- 3. 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?

4. 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?

5. 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.

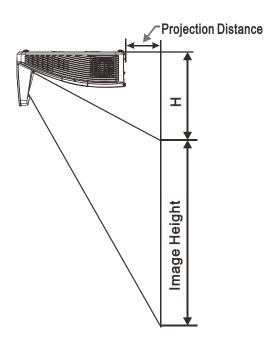
For more detail information check http://www.hdmi.org/learningcenter/fag.aspx#49

SPECIFICATIONS

Specifications

Model	DH758UST	DH758USTIR		
Display type	DMD 0.65" 1080P			
Resolution	1080P 1920 x 1080 Native			
Projection distance	663mm - 833mm			
Projection screen size	16:9 (88"~110")			
Projection lens	F	ix		
Throw ratio	0.33	3:1		
Vertical keystone correction	+/- 40 c	degrees		
Projection methods	Front, Rear, Desktop	/Ceiling (Rear, Front)		
Data compatibility	VGA, SVGA, XGA,	SXGA, UXGA, Mac		
SDTV/EDTV/ HDTV	480i, 576i, 480p, 576 _l	o, 720p, 1080i, 1080p		
Video compatibility	NTSC/NTSC 4.43, PAL (B/G/H/I/M/N/60), SECAM		
H-Sync	15, 30 –	91.4 kHz		
V-Sync	24-30, 47			
Safety certification	FCC, UL, cUL, CB, CE, CCC, KC, PSB, CU, CECP, NOM, ICES-003, C-TICK			
Operation temperature	0° ~ 40°C			
Dimensions	287.5mm(W)x122.6mm(H)x374.5mm(D) w/o mirror			
AC Input	AC Universal 100 ~ 240V			
Power consumption	380W , <0.5W (Stand By)			
Lamp	280W			
limited lens shift function	No			
Audio speaker	10W x2	<u> </u>		
Interactive function	No Yes			
	VGA x 2			
	Mini jack x 1 (Audio In)			
	Composite			
Input Terminals	HDM			
	S-Video x 1			
	Audio In	<u> </u>		
	MIC			
Output Terminals	VGA x 1 (Loop Thru	,		
· ·	Mini jack x 1 (Audio out)			
	RS-2			
0	RJ45			
Control Terminals	USB (type B)			
		Mini USB (Interactive used)		
	USB (type A) 5V2A			
Security	Kensington lock			

Projection Distance vs. Projection Size



Projection Distance and Size Table

	DH758UST / DH758USTIR Series				
	1080P				
Diagonal	88.9"	99"	102"	110"	
Distance	340.3+/-20mm	421.4+/-20mm	445.8+/-20mm	510.5+/-20mm	
Image Width	1968mm	2194mm	2262mm	2435mm	
Image height	1107mm	1234mm	1272mm	1370mm	
Н	331.2+/-50mm	362.8+/-50mm	372.3+/-50mm	397.6+/-50mm	

Timing Mode Table

SIGNAL	RESOLUTION	H-SYNC (KHz)	V-SYNC (Hz)	COMPOSITE S_VIDEO	COMPONENT	RGB (Analog)	DP/HDMI (DIGITAL)
NTSC	_	15.734	60	0	_	_	_
PAL/SECAM	_	15.625	50	0	_	_	_
	720 x 400	31.5	70.1	_	_	0	0
	720 x 400	37.9	85.04	_	_	0	0
	640 x 480	31.5	60	_	_	0	0
	640 x 480	37.9	72.8	_	_	0	0
	640 x 480	37.5	75	_	_	0	0
	640 x 480	43.3	85	_	_	0	0
	800 x 600	35.2	56.3	_	_	0	0
	800 x 600	37.9	60.3	_	_	0	0
	800 x 600	46.9	75	_	_	0	0
	800 x 600	48.1	72.2	_	_	0	0
	800 x 600	53.7	85.1	_	_	0	0
	800 x 600	76.3	120	_	_	0	0
	1024 x 768	48.4	60	_	_	0	0
	1024 x 768	56.5	70.1	_	_	0	0
	1024 x 768	60	75	_	_	0	0
	1024 x 768	68.7	85	_	_	0	0
\/ECA	1024 x 768	97.6	120	_	_	0	0
VESA	1152 x 864	67.5	75	_	_	0	0
	1280 x 720	45	60	_	_	0	0
	1280 x 720	90	120	_	_	0	0
	1280 x 768	47.4	60	_	_	0	0
	1280 x 768	47.8	59.9	_	_	0	0
	1280 x 800	49.7	59.8	_	_	0	0
	1280 x 800	62.8	74.9	_	_	0	0
	1280 x 800	71.6	84.9	_	_	0	0
	1280 x 800	101.6	119.9	_	_	0	0
	1280 x 1024	64	60	_	_	0	0
	1280 x 1024	80	75	_	_	0	0
	1280 x 1024	91.1	85	_	_	0	0
	1280 x 960	60	60	_	_	0	0
	1280 x 960	85.9	85	_	_	0	0
	1366 x 768	47.7	60	_	_	0	0
	1400 x 1050	65.3	60	_	_	0	0
	1440 x 900	55.9	60	_	_	0	0

SIGNAL	RESOLUTION	H-SYNC (KHz)	V-SYNC (Hz)	COMPOSITE S_VIDEO	COMPONENT	RGB (ANALOG)	DP/HDMI (DIGITAL)
	1440 x 900	70.6	75	_	_	0	0
	1600 x1200	75	60	_	_	0	0
	1680 x 1050	64.7	59.9	_	_	0	0
	1680 x 1050	65.3	60	_	_	0	0
	1920 x 1200	74	60	_	_	0	0
	1920 x 1080	67.5	60	_	_	0	0
	640 x 480	35	66.7	_	_	0	0
Apple	832 x 624	49.7	74.5		_	0	0
Macintosh	1024 x 768	60.2	74.9	_	_	0	0
	1152 x 870	68.7	75.1	_	_	0	0
SDTV	480i	15.734	60	_	0	_	0
3017	576i	15.625	50		0	_	0
EDTV	576p	31.3	50	I	0	_	0
EDIV	480p	31.5	60	-	0	_	0
	720p	37.5	50	I	0	_	0
	720p	45	60	I	0	_	0
	1080i	33.8	60		0	_	0
	1080i	28.1	50	_	0	_	0
HDTV	1080p	27	24		0	_	0
	1080p	28	25	_	0	_	0
	1080p	33.7	30	_	0	_	0
	1080p	56.3	50	_	0	_	0
	1080p	67.5	60	_	0	_	0

O: Frequency supported

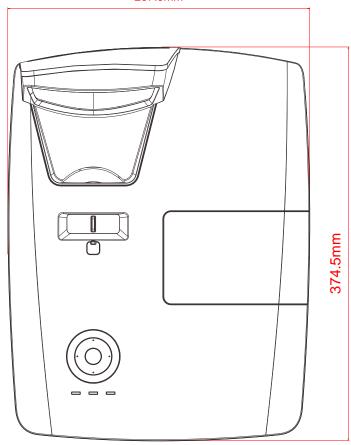
— : Frequency not supported

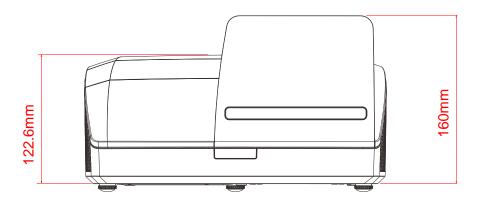
Resolution others than native resolution may be display with uneven size of text or line

- ★The color of mean Displayable only. (4:3 only)
- ★The color of __mean may have a little noise is acceptable. Because video mode sync don't auto adjustment.
- ★HDTV timing main check tool is DVD player, VG828 is secondary

Projector Dimensions (DH758UST Series)

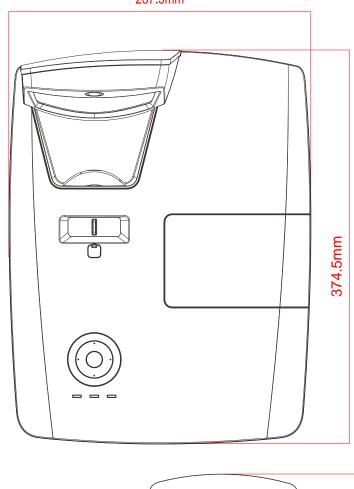
287.5mm

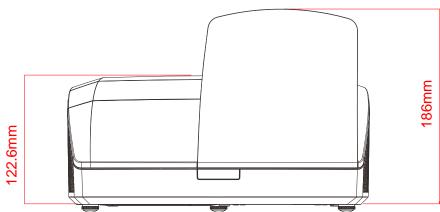




Projector Dimensions (DH758USTIR Series)

287.5mm





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, UL, cUL, CB, CE, CCC, KC, PSB, CU, CECP, NOM, ICES-003, C-TICK

APPENDIX I

RS-232C Protocol

RS232 Setting

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

Minimum delay for next command: 1ms

Control Command Structure

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

Operation Command

Note:

"CR" mean Carriage Return

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

Return Result P=Pass / F=Fail

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

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

	Commar	nd 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
VXXG0108	56h Xh Xh 47h 30h 31h 30h 38h 0Dh	Get Display Mode	0:Presentation 1:Bright 2:Game 3:Movie 4:TV 5:sRGB 6:Blackboard 7.User	P/F
VXXS0108n	56h Xh Xh 53h 30h 31h 30h 38h nh 0Dh	Set Display Mode	0:Presentation 1:Bright 2:Game 3:Movie 4:TV 5:sRGB 6:Blackboard 7.User	P/F

	Command Group 02				
ASCII	HEX	Function	Description	Return Value	
VXXS0201	56h Xh Xh 53h 30h 32h 30h 31h 0Dh	Select RGB		P/F	
VXXS0202	56h Xh Xh 53h 30h 32h 30h 32h 0Dh	Select RGB2		P/F	
VXXS0203	56h Xh Xh 53h 30h 32h 30h 33h 0Dh	Select DVI		P/F	

	Command Group 02					
ASCII	HEX	Function	Description	Return Value		
VXXS0204	56h Xh Xh 53h 30h 32h 30h 34h 0Dh	Select Video		P/F		
VXXS0205	56h Xh Xh 53h 30h 32h 30h 35h 0Dh	Select S-Video		P/F		
VXXS0206	56h Xh Xh 53h 30h 32h 30h 36h 0Dh	Select HDMI		P/F		
VXXS0207	56h Xh Xh 53h 30h 32h 30h 37h 0Dh	Select BNC		P/F		
VXXS0208	56h Xh Xh 53h 30h 32h 30h 38h 0Dh	Select Component		P/F		
VXXS0209	56h Xh Xh 53h 30h 32h 30h 39h 0Dh	Select HDMI 2		P/F		
VXXS0210	56h Xh Xh 53h 30h 32h 31h 30h 0Dh	Select DP		P/F		
VXXG0220	56h Xh Xh 47h 30h 32h 32h 30h 0Dh	Get Current Source	Return 1:RGB 2:RGB2 3:DVI 4:Video 5:S-Video 6:HDMI 7:BNC 8:Component 9:Display Port 10:HDMI 2	Pn/F		

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

Command Group 03					
ASCII	HEX	Function	Description	Return Value	
VXXG0308	56h Xh Xh 47h 30h 33h 30h 38h 0Dh	Projection Mode	0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling	Pn/F	
VXXS0308n	56h Xh Xh 53h 30h 33h 30h 38h nh 0Dh	Projection Mode	0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling	P/F	
VXXG0309	56h Xh Xh 47h 30h 33h 30h 39h 0Dh	Set vertical keystone value	n=-40~+40	Pn/F	
VXXS0309n	56h Xh Xh 53h 30h 33h 30h 39h nh 0Dh	Set vertical keystone value	n=-40~+40	P/F	
VXXG0310	56h Xh Xh 47h 30h 33h 31h 30h 0Dh	Set horizontal keystone value	n=-20~+20	Pn/F	
VXXS0310n	56h Xh Xh 53h 30h 33h 31h 30h nh 0Dh	Set horizontal keystone value	n=-20~+20	P/F	
VXXG0311	56h Xh Xh 47h 30h 33h 31h 31h 0Dh	Adjust the zoom	n=-10~+10	Pn/F	
VXXS0311n	56h Xh Xh 53h 30h 33h 31h 31h nh 0Dh	Adjust the zoom	n=-10~+10	P/F	
VXXG0312	56h Xh Xh 47h 30h 33h 31h 32h 0Dh	Adjust the focus	n=-20~+20	Pn/F	
VXXS0312n	56h Xh Xh 53h 30h 33h 31h 32h nh 0Dh	Adjust the focus	n=-20~+20	P/F	
VXXG0313	56h Xh Xh 47h 30h 33h 31h 33h 0Dh	Adjust the vertical lens shift	n=-20~+20	Pn/F	
VXXS0313n	56h Xh Xh 53h 30h 33h 31h 33h nh 0Dh	Adjust the vertical lens shift	n=-20~+20	P/F	
VXXG0314	56h Xh Xh 47h 30h 33h 31h 34h 0Dh	Adjust the horizontal lens shift	n=-20~+20	Pn/F	
VXXS0314n	56h Xh Xh 53h 30h 33h 31h 34h nh 0Dh	Adjust the horizontal lens shift	n=-20~+20	P/F	
VXXG0315	56h Xh Xh 47h 30h 33h 31h 35h 0Dh	3D	0:Off 1:DLP-Link 2:IR	Pn/F	
VXXS0315n	56h Xh Xh 53h 30h 33h 31h 35h nh 0Dh	3D	0:Off 1:DLP-Link 2:IR	P/F	
VXXG0316	56h Xh Xh 47h 30h 33h 31h 36h 0Dh	3D Sync Invert	0:Off 1:On	Pn/F	
VXXS0316n	56h Xh Xh 53h 30h 33h 31h 36h nh 0Dh	3D Sync Invert	0:Off 1:On	P/F	
VXXG0317	56h Xh Xh 47h 30h 33h 31h 37h 0Dh	3D Format	0:Frame Sequential 1:Top/Bottom 2:Side-By-Side 3:Frame Packing	Pn/F	
VXXS0317n	56h Xh Xh 53h 30h 33h 31h 36h nh 0Dh	3D Format	0:Frame Sequential 1:Top/Bottom 2:Side-By-Side 3:Frame Packing	P/F	
VXXG0319	56h Xh Xh 47h 30h 33h 31h 39h 0Dh	Get Lamp Mode	0:Eco 1:Normal 2:Dynamic Eco	Pn/F	
VXXS0319n	56h Xh Xh 53h 30h 33h 31h 39h nh 0Dh	Set Lamp Mode	0:Eco 1:Normal 2:Dynamic Eco	P/F	

	Command Group 03					
ASCII	HEX	Function	Description	Return Value		
VXXS0320	56h 39h 39h 53h 30h 33h 32h 30h 0Dh	Screen Capture				
VXXG0321	56h 39h 39h 47h 30h 33h 32h 31h 0Dh	Get Splash Logo	0:STD 1:Off 2:User	Pn/F		
VXXS0321n	56h 39h 39h 53h 30h 33h 32h 31h nh 0Dh	Set Splash Logo	0:STD 1:Off 2:User	P/F		
VXXG0322	56h 39h 39h 47h 30h 33h 32h 32h 0Dh	Get Fan Speed	0:Normal 1:High	Pn/F		
VXXS0322n	56h 39h 39h 53h 30h 33h 32h 32h nh 0Dh	Get Fan Speed	0:Normal 1:High	P/F		
VXXG0358	56h 39h 39h 47h 30h 33h 35h 38h 0Dh	Get IR On/Off Control	0:Both IR turn on 1:Front IR turn on 2:Back IR turn on 3:Both IR turn off	Pn/F		
VXXS0358n	56h 39h 39h 53h 30h 33h 35h 38h nh 0Dh	Get IR On/Off Control	0:Both IR turn on 1:Front IR turn on 2:Back IR turn on 3:Both IR turn off	P/F		

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