

DLP® Projector

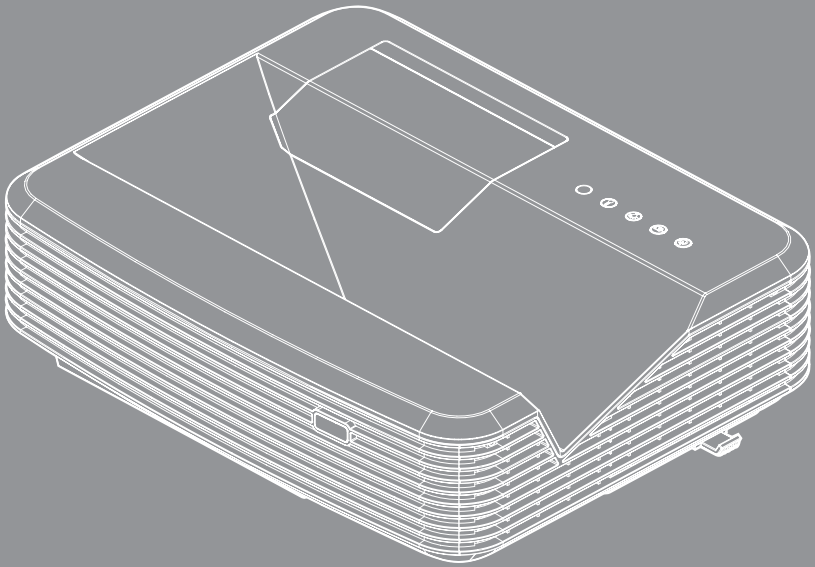




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Usage Notice

Safety Information

	The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Class B emissions limits

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Important Safety Instruction

1. Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
2. Do not use the projector near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture.
3. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
4. Clean only with dry cloth.
5. Only use attachments/accessories specified by the manufacturer.
6. Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
 - Unit has been dropped.
 - Power supply cord or plug has been damaged.
 - Liquid has been spilled on to the projector.
 - Projector has been exposed to rain or moisture.
 - Something has fallen in the projector or something is loose inside.Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the unit for repair.
7. Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
8. See projector enclosure for safety related markings.
9. The unit should only be repaired by appropriate service personnel.

Usage Notice

Precautions



Please follow all warnings, precautions and maintenance as recommended in this user's guide.



❖ When the lamp reaches the end of its life, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp" section on pages 88-89.

- | | |
|----------|---|
| Warning- | Do not look into the projector's lens when the lamp is on. The bright light may hurt your eyes. |
| Warning- | To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture. |
| Warning- | Please do not open or disassemble the projector as this may cause electric shock. |
| Warning- | When replacing the lamp, please allow the unit to cool down. Follow instructions as described on pages 88-89. |
| Warning- | This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages. |
| Warning- | Reset the "Lamp Reset" function from the on-screen display "Options Lamp Settings" menu after replacing the lamp module (refer to page 78). |
| Warning- | When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down. |
| Warning- | When the lamp is approaching to the end of its life time, the message "Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible. |



Usage Notice

Do:

- ❖ Turn off and unplug the power plug from the AC outlet before cleaning the product.
- ❖ Use a soft dry cloth with mild detergent to clean the display housing.
- ❖ Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Do not:

- ❖ Block the slots and openings on the unit provided for ventilation.
- ❖ Use abrasive cleaners, waxes or solvents to clean the unit.
- ❖ Use under the following conditions:
 - In extremely hot, cold or humid environments.
 - ▶ Ensure that the ambient room temperature is within 5°C ~ 40°C
 - ▶ Relative humidity is 10% ~ 85%
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.

Eye Safety Warnings



- ❖ Avoid staring/facing directly into the projector beam at all times. Keep your back to the beam as much as possible.
- ❖ When projector is used in a classroom, adequately supervise students when they are asked to point out something on the screen.
- ❖ In order to minimize the lamp power, use room blinds to reduce ambient light levels.



Product Features

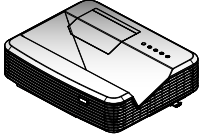
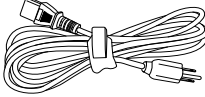


- ❖ Product features may vary depending on model.
- ❖ 1080p (1920x1080)
- ❖ HD compatible - 720p and 1080p supported
- ❖ BrilliantColor™ Technology
- ❖ Kensington Lock
- ❖ RS232 control
- ❖ Rapid shutdown
- ❖ Full 3D (See page 92)
- ❖ Crestron/Extron/ PLink™ compatibility.
- ❖ Eco+ mode for more economic usage
- ❖ USB Power Charger

Introduction

Package Overview

Unpack and inspect the box contents to ensure all parts listed below are in the box. If something is missing, please contact Optoma customer service.

Standard Accessories

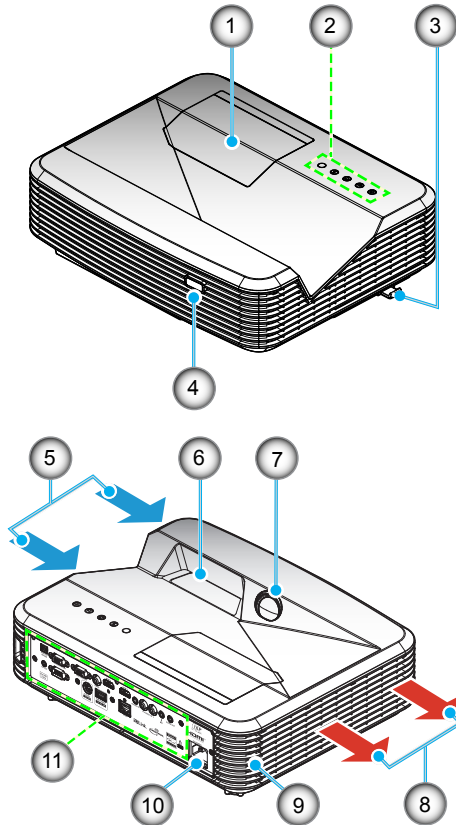
		
Projector	Power Cord	Remote
	<input checked="" type="checkbox"/> CD User Manual *(1) <input checked="" type="checkbox"/> Warranty Card *(2) <input checked="" type="checkbox"/> Basic User Manual	
2 × AAA Batteries	Documentation	



- ❖ *(1) For European User Manual please visit www.optomaeurope.com.
- ❖ *(2) For European warranty information please visit www.optomaeurope.com.

Product Overview

Main Unit

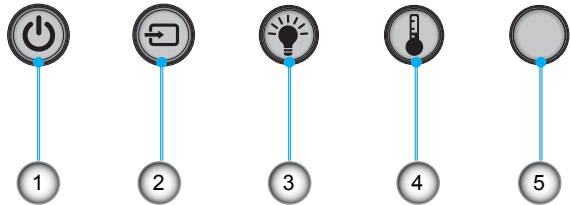


- ❖ Do not block projector in/out air vents.
- ❖ Keep a minimum distance of 20cm between the "inlet" and "outlet" labels.

- | | |
|------------------------|---|
| 1. Lamp Cover | 7. IR Camera (Only for interactive version) |
| 2. Control Panel | 8. Ventilation (outlet) |
| 3. Focus Switch | 9. Speaker |
| 4. IR Receiver | 10. Power Socket |
| 5. Ventilation (inlet) | 11. Input/Output Connections |
| 6. Lens | |

Introduction

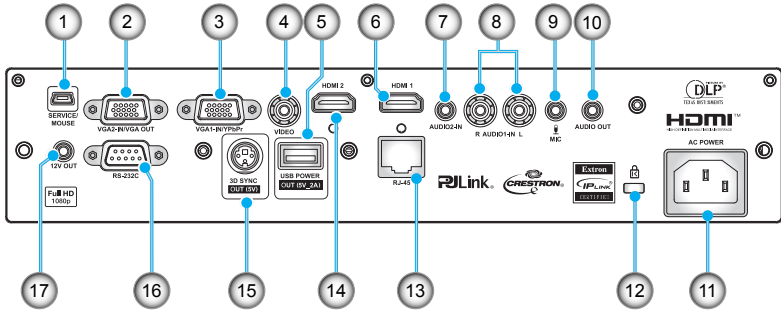
Control Panel



-
1. Power
 2. Source
 3. Lamp Indicator
 4. Temperature (Temp) Indicator
 5. IR Receiver
-

Introduction

Input/Output Connections



1. USB Connector (Connect to PC for Remote Mouse function)
2. VGA2-IN/VGA OUT Connector
3. VGA1-IN/YPbPr Connector (PC Analog Signal/Component Video Input/HDTV/YPbPr)
4. VIDEO Connector
5. USB Power Connector (5V_2A)
6. HDMI 1 Connector
7. AUDIO2-IN Connector
8. AUDIO1-IN (right/left) Connector
9. MIC Connector (microphone)
10. Audio Output Connector (3.5mm mini Jack)
11. AC Power
12. Kensington™ Lock Port
13. RJ45 Connector
14. HDMI 2 Connector
15. 3D Sync Connector (5V)
16. RS-232C Connector (9-pin DIN Type)
17. 12V Audio Out Connector

NOTE

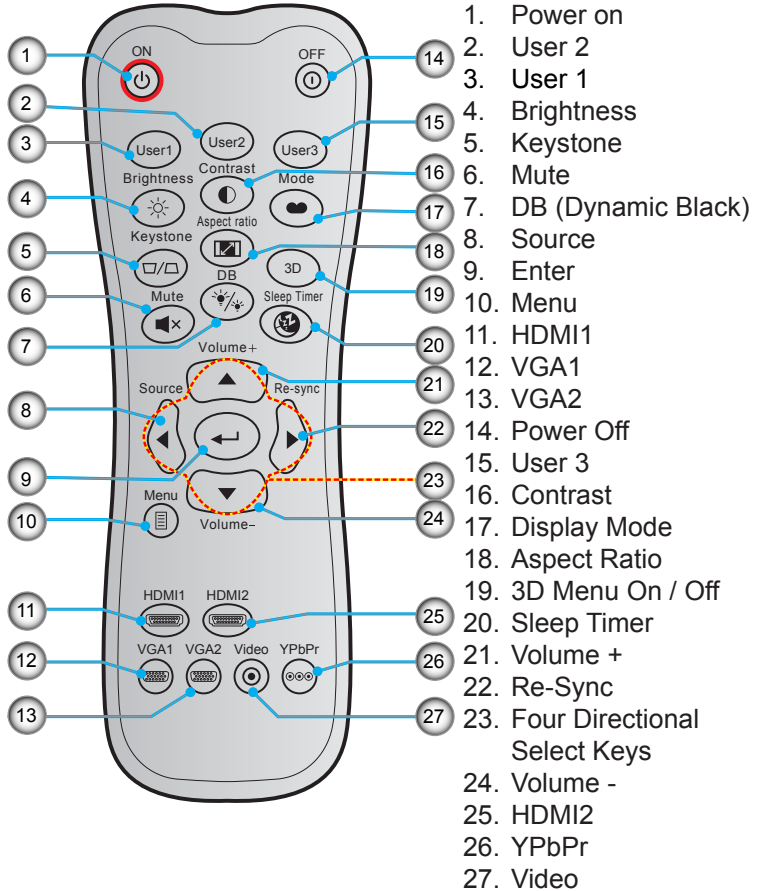
- ❖ Remote mouse requires special remote.

Introduction

Remote Control



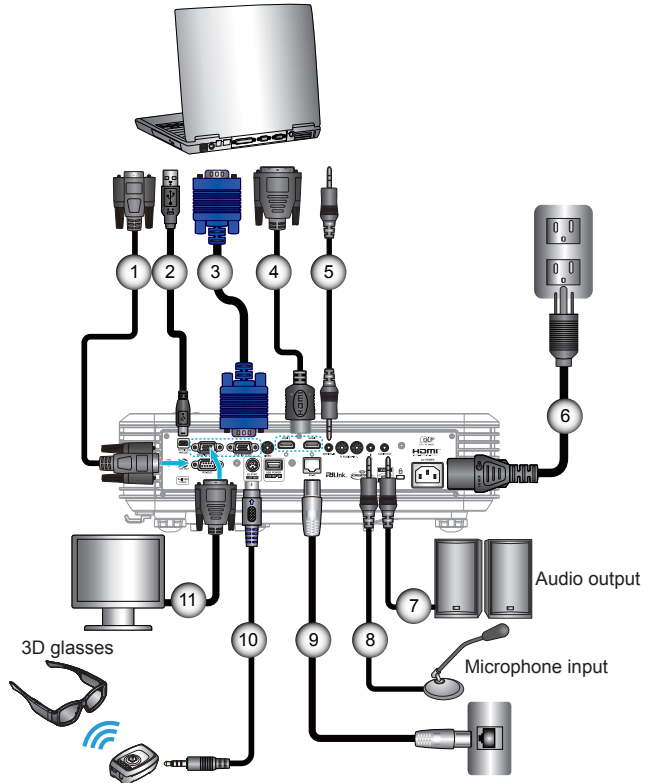
❖ Some keys may have no function for models which do not support these features.



Installation

Connecting to the Projector

Connecting a Computer/Notebook



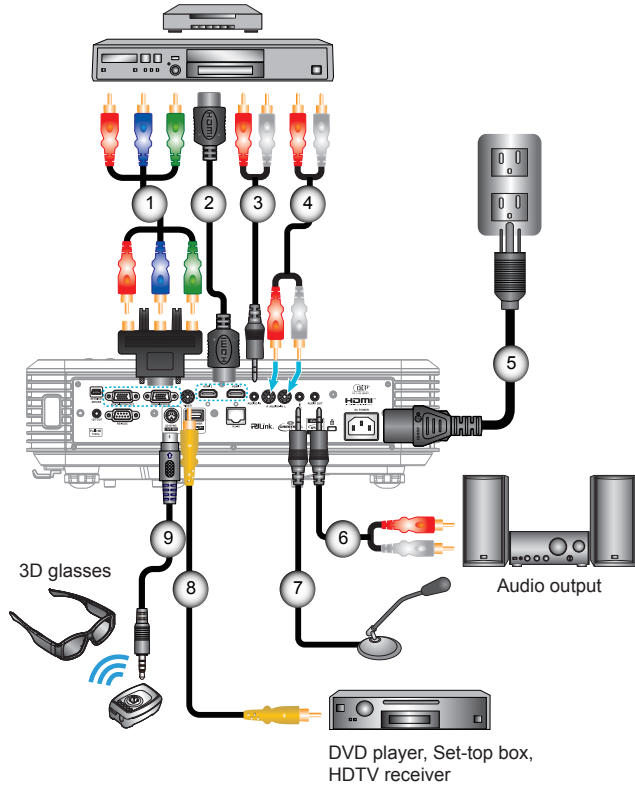
- ❖ Due to the difference in applications for each country, some regions may have different accessories.
- ❖ (*) Optional accessory

1.....	*RS-232C cable
2.....	*Remote Mouse USB cable
3.....	VGA In/YPbPr cable
4.....	HDMI cable
5.....	*Audio In cable
6.....	Power cord
7.....	*Audio Out cable
8.....	*Audio In (microphone) cable
9.....	*RJ-45 cable
10.....	*3D emitter cable
11.....	VGA Out/VGA In cable

Installation

Connecting a Video source

DVD player, Blu-ray player, Set-top box,
HDTV receiver, Games console



- ❖ Due to the difference in applications for each country, some regions may have different accessories.
- ❖ (*) Optional accessory

1.....	*3 RCA Component cable
2.....	HDMI cable
3.....	*Audio In cable
4.....	*Audio In cable
5.....	Power cord
6.....	*Audio Out cable
7.....	*Microphone In cable
8.....	*Video cable
9.....	*3D emitter cable



- ❖ The 3D video source device must be powered on before the 3D projector.



- ❖ If input video is normal 2D, please press "3D Format" and switch to "Auto".
- ❖ If "SBS Mode" is active, 2D video content will not display correctly.

Connect to 3D Video Devices

Once you have connected your devices together with HDMI cables, as shown in the diagram, you are ready to begin. Power ON your 3D video source and your 3D projector.

PlayStation® 3 Games

- Make sure that you have updated your console to the latest software version.
- Go to the "Settings menu -> Display settings -> Video output -> HDMI". Select "Automatic" and follow the on-screen instructions.
- Insert your 3D game disc. Alternatively you can download games (and 3D updates) via the PlayStation® network.
- Launch the game. In the in-game menu, select "Play in 3D".

Blu-ray 3D™ Player

- Make sure that your player can support 3D Blu-ray™ disc and that 3D output is enabled.
- Insert the 3D Blu-ray™ disc into the player, press "Play".

3D TV (e.g. SKY 3D, DirectTV)

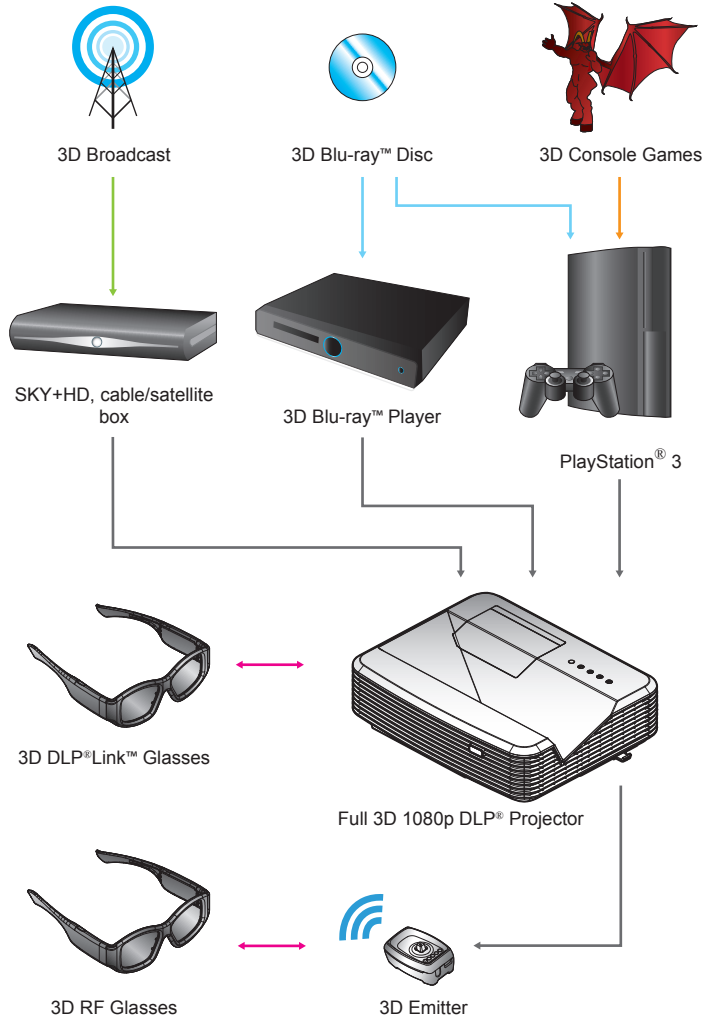
- Contact your TV service provider to enable any 3D channels on your channel package.
- Once enabled, switch to the 3D channel.
- You should see two images side-by-side.
- Switch to the "SBS Mode" of the 3D projector. The option is located in the "Display" section of the projector OSD menu.

3D Device (e.g. 3D DV/DC) with 2D 1080i side by side signal output

- Connect your 3D device and switch to out 3D content with 2D side-by-side output to 3D Projector.
 - You should see two images side-by-side.
- Switch to the "SBS Mode" of the 3D projector. The option is located in the "Display" section of the projector OSD menu.

If watching 3D content from an HDMI 1.4a source (e.g. 3D Blu-ray) your 3D glasses should always be in sync. If watching 3D content from an HDMI 1.3 source (e.g. 3D broadcast using SBS mode) it may be necessary to use the projector's 3D Sync-Invert option to optimize your 3D experience. The option is located in the "Display ->3D" section of the projector OSD menu.

Installation





❖ For more detailed information, please refer to 3D glasses user's guide.

Using the 3D glasses

1. To turn ON 3D glasses.
2. Verify that 3D content is being sent to the projector and signal is compatible with projector specifications.
3. Turn on the "3D Mode" (Off/DLP-Link/VESA 3D - depending on which type of glasses you are using) of the 3D projector. The option is located in the "Display" section of the projector OSD menu.
4. Turn on 3D glasses and verify image appears in 3D without eyestrain.
5. If the image does not appear in 3D, please check 3D device set up correctly to send out 3D image or not. Or "SBS Mode" should turn on when input signal is 2D 1080i side-by-side and repeat previous steps 1 ~ 4.
6. It may be necessary to use projector's "3D Sync-Invert" option to optimize your 3D experience. The option is located in the "Display" section of the projector OSD menu.
7. To turn OFF 3D glasses: Press the "Power" button and hold until the LED switches off.
8. For more detailed information, please refer to the 3D glasses user's guide, or manufacturer's Website.

Powering On/Off the Projector

Powering On the Projector

1. Securely connect the power cord and signal cable. When connected, the On/Standby LED will turn Red.
2. Turn on the lamp by pressing "⏻" button either on the top of the projector or on the remote. The On/Standby LED will now turn Blue.

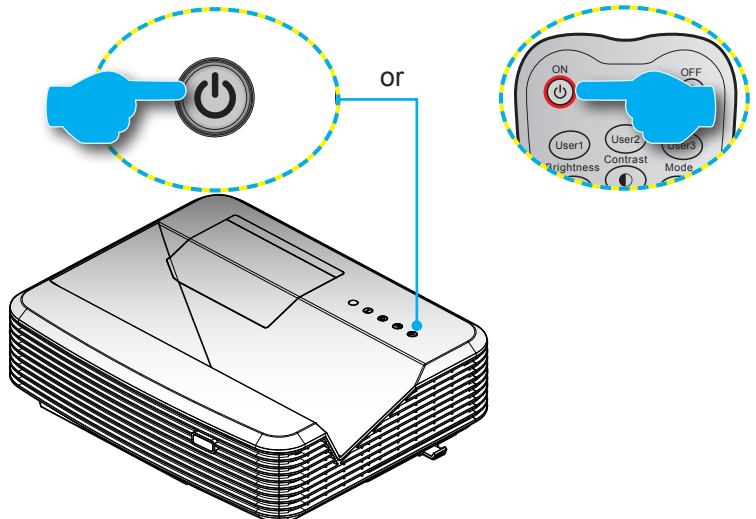
The startup screen will display in approximately 10 seconds. The first time you use the projector, you will be asked to select the preferred language and power saving mode.

3. Turn on and connect the source that you want to display on the screen (computer, notebook, video player, etc). The projector will detect the source automatically. If not, push menu button and go to "OPTIONS".
Make sure that the "Source Lock" has been set to "Off".

- ❖ If you connect multiple sources at the same time, press the "SOURCE" button on the Remote Control or direct source keys on the remote control to switch between inputs.



- ❖ Turn on the projector first and then select the signal sources.
- ❖ (*) Optional accessory.



Powering Off the Projector

1. Press the "⏻" button on the remote control or on the Control Panel to turn off the projector. The following message will be displayed on the screen.



Press the "⏻" button again to confirm otherwise the message will disappear after 15 seconds. When you press the "⏻" button for the second time, the projector will display countdown timer and will shut down.

2. The cooling fans continue to operate for about 10 seconds for cooling cycle and the On/Standby LED will flash Blue. When the On/Standby LED lights solid Red, the projector has entered standby mode.

If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press "⏻" button to restart the projector.

3. Disconnect the power cord from the electrical outlet and the projector.
4. Do not turn on the projector immediately following a power off procedure.



- ❖ Contact the nearest service center if the projector displays these symptoms. See pages 95-96 for more information.

Warning Indicator

When the warning indicators (see below) come on, the projector will automatically shutdown:

- ❖ "LAMP" LED indicator is lit red and if "On/Standby" indicator flashes red.
- ❖ "TEMP" LED indicator is lit red and if "On/Standby" indicator flashes red. This indicates the projector has overheated. Under normal conditions, the projector can be switched back on.
- ❖ "TEMP" LED indicator flashes red and if "On/Standby" indicator flashes red.

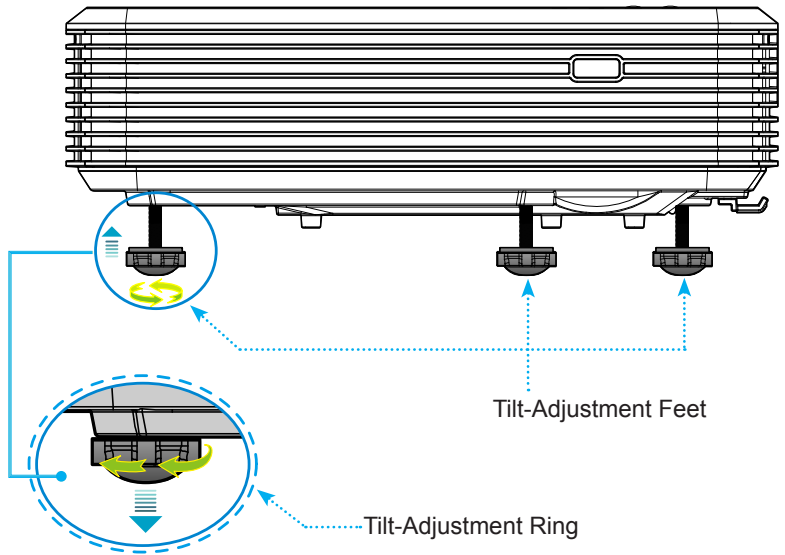
Unplug the power cord from the projector, wait for 30 seconds and try again. If the warning indicator light up again, please contact your nearest service center for assistance.

Adjusting the Projected Image

Adjusting the Projector's Height

The projector is equipped with elevator feet for adjusting the image height.

1. Locate the adjustable foot you wish to modify on the underside of the projector.
2. Rotate the adjustable ring clockwise to raise the projector or counter clockwise to lower it. Repeat with the remaining feet as needed.

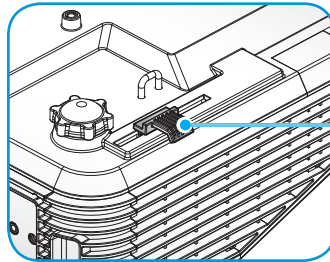


Installation

Adjusting the Projector's Focus

To focus the image, slide the focus switch until the image is clear.

- ▶ Standard throw series (1080p): The projector will focus at distance from 1.46 to 1.83 feet (0.45 to 0.56 meters) counted from the center of lens.



Focus Switch

Adjusting Projection Image Size

- ▶ Projection Image Size (1080p) from 80"-100" (2.03 to 2.54 meters).

Variables:

"a": Image Offset (m) from the center of the lens to the top of the vertical image.

"b": Distance from the center of the lens to the bottom of the projector.

"c": Distance between the wall (projection surface) to the back of the projector.

"d": Image Diagonal.

"g": Distance between the center of the lens and wall (projection surface).

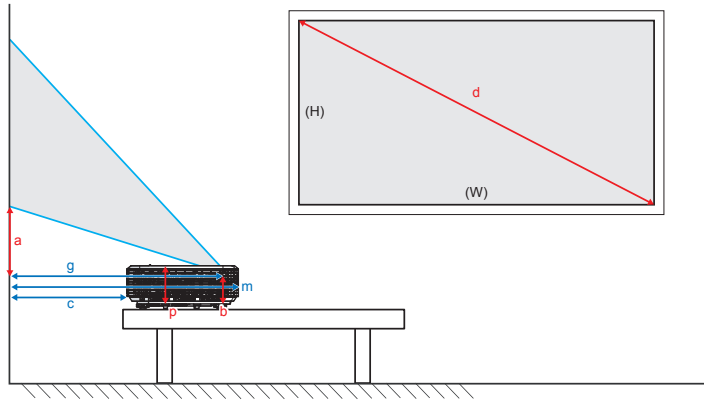
"m": Distance between the wall (projection surface) and the front of the projector.

"p": Distance from top of projector to the mounting hole.

"H": Height of the Image.

"W": Width of the image.

Installation



Standard throw 1080p (16:9)

a	b	c	d	W		H		g		m	P
				(inch)	(m)	(inch)	(m)	(feet)	(m)		
0.179	0.0631	0.193	80	69.7	1.77	39.2	1.00	1.46	0.45	0.253	0.115
0.200	0.0631	0.244	89	77.6	1.97	43.7	1.11	1.63	0.50	0.253	0.115
0.202	0.0631	0.249	90	78.4	1.99	44.1	1.12	1.65	0.50	0.253	0.115
0.224	0.0631	0.305	100	87.2	2.21	49.0	1.25	1.83	0.56	0.253	0.115






❖ This table is for user's reference only.

Control Panel & Remote Control

Control Panel



Using the Control Panel

POWER		Refer to the "Power On/Off the Projector" section on pages 17-18.
SOURCE		Press  to select an input signal.
Lamp LED		Indicate the projector's lamp status.
Temp LED		Indicate the projector's temperature status.
IR Receiver		Receives infrared signals from the remote control.

User Controls

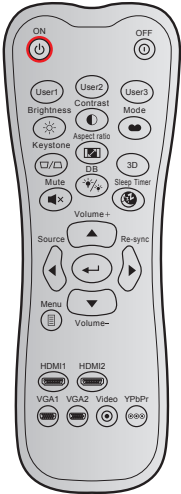
Remote Control











Using the Remote Control

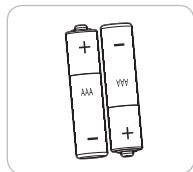
Power on		Press to turn on the projector.
Power off		Press to turn off the projector.
User 1		User defined keys.
User 2		Please see page 81 to setup.
User 3		
Brightness		Adjust the brightness of the image.
Contrast		Control the degree of difference between the lightest and darkest parts of the picture.
Four direction keys		Use ▲, ▼, ►, or ◀ to select items or make adjustments to your selection.
Display mode		Select a display mode for optimized settings for different applications. Please see pages 35-36.
Keystone		Adjust image distortion caused by tilting the projector.
Aspect ratio		Press to change aspect ratio of a displayed image.
3D		Manually select a 3D mode that matches your 3D content.
Mute		Momentarily turns off / on the audio.
DB (Dynamic Black)		Automatically adjusts the picture brightness to give optimum contrast performance.
Sleep timer		Sets the countdown timer interval.
Volume +		Adjust to increase volume.
Source		Press "Source" to select an input signal.

User Controls



Using the Remote Control

Enter key		Confirm your item selection.
Re-sync		Automatically synchronizes the projector to the input source.
Volume -		Adjust to decrease volume.
Menu		Display or exit the on-screen display menus for projector.
HDMI1		Press "HDMI1" to choose source from HDMI 1 connector.
HDMI2		Press "HDMI2" to choose source from HDMI 2 connector.
VGA1		Press "VGA 1" to choose source from VGA1-IN/YPbPr connector.
VGA2		Press "VGA 2" to choose source from VGA2-IN/VGA OUT connector.
Video		Press "Video" to choose source from Video connector.
YPbPr		Press "YPbPr" to choose source from VGA1-IN/YPbPr connector.



Installing Batteries

Two size AAA batteries are supplied for Remote Control.

Replace only with the same or equivalent type recommended by the manufacturer.



CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

Do not mix batteries of different types. Different types of batteries have different characteristics.

Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.

Remove batteries as soon as they are worn out. Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.

The batteries supplied with this product may have a shorter life expectancy due to storage conditions.

If you will not be using the remote control unit for an extended period of time, remove batteries from it.

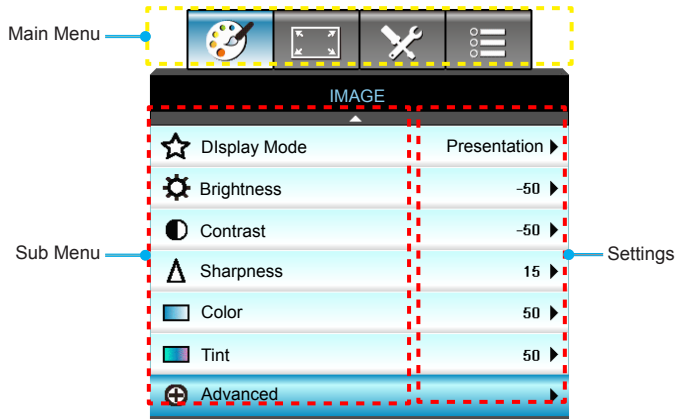
When you dispose of the battery, you must obey the law in the relative area or country.

On-screen Display Menus

The Projector has multilingual On-screen Display menus that allow you to make image adjustments and change a variety of settings. The projector will automatically detect the source.

How to operate

1. To open the OSD menu, press "Menu" on the Remote Control or Control Panel.
2. When OSD is displayed, use ◀▶ keys to select any item in the main menu. While making a selection on a particular page, press ▼ or "Enter" key to enter sub menu.
3. Use ▲▼ keys to select the desired item in the sub menu and then press ▶ or "Enter" key to view further settings. Adjust the settings by ◀▶ key.
4. Select the next item to be adjusted in the sub menu and adjust as described above.
5. Press "Enter" or "Menu" to confirm, and the screen will return to the main menu.
6. To exit, press "Menu" again. The OSD menu will close and the projector will automatically save the new settings.



User Controls










Menu Tree

Main Menu	Sub Menu	Advanced Menu	Parameter	Single Item in the Menu	Value or Default	Notes			
IMAGE	Display Mode			Presentation / Bright / Movie / sRGB / Game / Vivid / 3D / User		Each mode can adjust and save to user mode.			
	Brightness				-50~ +50				
	Contrast				-50~ +50				
	Sharpness				1~ 15				
	Color				-50~ +50				
	Tint				-50~ +50				
	Advanced	Noise Reduction				0~10			
		BrilliantColor™				1~10			
		Gamma			Film/ Graphic/1.8/2.0/2.2/2.6/ Blackboard / DICOM SIM./3D		All gamma could be selected for all display modes.		
		Color Temp.			Standard/Cool / Cold				
		Color Space				Not HDMI Input: Auto / RGB / YUV	Auto		
						HDMI Input: Auto/ RGB(0~255) / RGB(16~235)/ YUV	Auto		
		RGB Gain/Bias				Red Gain			
						Green Gain			
						Blue Gain			
						Red Bias			
						Green Bias			
						Blue Bias			
						Reset			To reset current source with current display mode for RGB Gain/Bias
						Exit			
		Color Matching				Red	Hue/ Saturation /Gain/ Exit	-50~ +50	
						Green	Hue/ Saturation /Gain/ Exit	-50~ +50	
						Blue	Hue/ Saturation /Gain/ Exit	-50~ +50	

User Controls

Main Menu	Sub Menu	Advanced Menu	Parameter	Single Item in the Menu	Value or Default	Notes
IMAGE	Advanced	Color Matching	Cyan	Hue/ Saturation / Gain/ Exit	-50~ +50	
			Magenta	Hue/ Saturation / Gain/ Exit	-50~ +50	
			Yellow	Hue/ Saturation / Gain/ Exit	-50~ +50	
			White	R/G/B/Exit	-50~ +50	
			Reset			To reset current source with current display mode for CMS settings
			Exit			
	Reset			Yes/No		To reset current source with current display mode for image settings.
DISPLAY	Format			4:3	Auto	
				16:9/16:10[WXGA]		
				LBX		
				Native		
				Auto	Default is "Auto"	
	Zoom				-5 ~ +25	
	Edge Mask				0 ~ 10	
	Image Shift	H			-50~ +50	Up/Down/Right/Left(Icon in center)
	V			-50~ +50		
V Keystone					-15~ +15	1080p: -5~+5
IMAGE	3D	3D Mode		DLP-Link/ VESA 3D /Off (For projector don't have VESA port, use " IR ")	DLP-Link	
		3D->2D		3D/ L/ R		
		3D Format		Auto/SBS/Top and Bottom/Frame Sequential		The items would be greyed out when 3D mode sets to Off.
		3D Sync Invert		On/Off	Off	
		Exit				

User Controls

Main Menu	Sub Menu	Advanced Menu	Parameter	Single Item in the Menu	Value or Default	Notes
SETUP	Language			English / Deutsch / Français / Italiano / Español / Português / Polski / Nederlands / Svenska / Norsk/Dansk / Suomi / ελληνικά / 繁體中文 / 簡體中文 / 日本語 / 한국어 / Русский / Magyar / Čeština / العربية / Türkçe / Farsi / Romanian / Slovakian	English	
	Projection			Front-Desktop 	Front Ceiling	
				Rear-Desktop 		
				Front-Ceiling 		
				Rear-Ceiling 		
	Screen Type			16:10/16:9 (WXGA MODEL)	Default is "16:10"	
	Menu Location			Top Left 	Center	
				Top Right 		
				Center 		
				Bottom Left 		
				Bottom Right 		

User Controls

Main Menu	Sub Menu	Advanced Menu	Parameter	Single Item in the Menu	Value or Default	Notes		
SETUP	Security	Security Setting		On/Off	Off	Password is required if "Security" is selected.		
		Security Timer		Month	0~12			
				Day	0~30			
				Hour	0~24			
				Exit				
		Change Password						
	Exit							
	Signal (RGB)	Frequency				-5~+5	Depends on signal	
		Phase				0~63		
		H. Position				-5~+5		
		V. Position				-5~+5		
		Automatic	Enable/Disable					
		Exit						
	Signal (Video)	White Level				-50~+50		
		Black Level				-50~+50		
		Exit						
	Projector ID					00~99		
	Auto Settings	Internal Speaker			On/Off	On	Audio 1 (RCA) for Composite Audio 2 (Mini jack) for VGA	
		Mute			On/Off	Off		
		Volume	Audio					0-10
			MIC					0-10
		Audio Input			Default/Audio 1/Audio 2	Default		
		Exit						
	Advanced	Logo			Optoma/ Neutral /User	Optoma		
		Logo Capture						
		Closed Captioning			CC1/CC2/Off	Off		
Exit								

User Controls

Main Menu	Sub Menu	Advanced Menu	Parameter	Single Item in the Menu	Value or Default	Notes
SETUP	Network	LAN Settings	Network Status	Read-Only		Never time-out on this page.
			DHCP	On/Off		
			IP Address			
			Subnet Mask			
			Gateway			
			DNS			
			Apply	Yes/No		
			MAC Address	Read-Only		
			Exit			
		Control Settings	Crestron	On/Off	On	
			Extron	On/Off	On	
			PJ Link	On/Off	On	
			AMX Device Discovery	On/Off	On	
			Telnet	On/Off	On	
Exit						
OPTIONS	Input Source			HDMI 1/HDMI 2/VGA 1/ VGA 2/Video		When no signal input, user still could do selection for "Input Source" from OSD.
				Exit		
	Source Lock			On/Off	Off	
	High Altitude			On/Off	Off	
	Information Hide			On/Off	Off	
	Keypad Lock			On/Off	Off	
	Test Pattern			None / Grid(white) / Grid(Green) / Grid(Magenta)/ White	None	
	Background Color			Blue / Black / Red / Green / White	Blue	Default is Blue
	12V Trigger			On/Off	On	
VGA2 Switch			In/Out	Out		

User Controls

Main Menu	Sub Menu	Advanced Menu	Parameter	Single Item in the Menu	Value or Default	Notes		
OPTIONS	Advanced	Direct Power On		On/Off				
		Signal Power on		On/Off				
		Auto Power Off (min)			0~180			
		Sleep Timer (min)			0~990			
		Power Mode (Standby)		Active/ Eco.	Eco.			
		Quick Resume		On/Off	Off			
		Remote Settings	User 1		HDMI2/VGA2/Test Pattern/LAN/Brightness/ Contrast/Sleep Timer/ Color Matching/Color Temp/Gamma/ Source Lock /Projection/Lamp Settings/ Zoom/Freeze	HDMI2		
			User 2		HDMI2/VGA2/Test Pattern/LAN/Brightness/ Contrast/Sleep Timer/ Color Matching/Color Temp/Gamma/ Source Lock /Projection/Lamp Settings/ Zoom/Freeze	VGA2		
			User 3		HDMI2/VGA2/Test Pattern/LAN/Brightness/ Contrast/Sleep Timer/ Color Matching/Color Temp/Gamma/ Source Lock /Projection/Lamp Settings/ Zoom/Freeze	Test Pattern		
		Exit						
		Lamp Settings	Lamp Hour			Read-Only[Range 0~ 9999]		
	Lamp Reset				Yes/No	No		
	Lamp Reminder				On/Off	On		
	Brightness Mode				Bright/Eco./Dynamic/ Eco+	Bright		
	Exit							
	Filter Settings	Filter Usage Hours			Read-Only [Range 0~ 9999]			
		Filter Reminder			Off/ 300hr/500hr/800hr/1000hr	500hr		
		Filter Reset			Yes/No	No		
		Exit						

User Controls

Main Menu	Sub Menu	Advanced Menu	Parameter	Single Item in the Menu	Value or Default	Notes
OPTIONS	Reset			Current/All		The definition of Current: To reset all OSD settings to be default for current source and current timing. The definition of All: To reset all OSD settings to be default for all source and all timing..

IMAGE



Display Mode

There are many factory presets optimized for various types of images.

- ▶ Presentation: This mode is suitable for showing in front of public in connection to the PC.
- ▶ Bright: Maximum brightness from PC input.
- ▶ Movie: This mode is suitable for watching video.
- ▶ User: Memorize user's settings.
- ▶ Game: Select this mode to increase the brightness and response time level for enjoying video games.
- ▶ Vivid: In this mode, the color saturation and brightness are well-balanced. Choose this mode for playing games.
- ▶ sRGB: Standardized accurate color.
- ▶ 3D: To experience the 3D effect, you need to have 3D glasses, make sure your PC/portable device has a 120 Hz signal output quad buffered graphics card and have a 3D Player installed.

User Controls



Brightness

Adjust the brightness of the image.

- ▶ Press the ◀ to darken image.
- ▶ Press the ▶ to lighten the image.



Contrast

The contrast controls the degree of difference between the lightest and darkest parts of the picture.

- ▶ Press the ◀ to decrease the contrast.
- ▶ Press the ▶ to increase the contrast.



Sharpness

Adjust the sharpness of the image.

- ▶ Press the ◀ to decrease the sharpness.
- ▶ Press the ▶ to increase the sharpness.

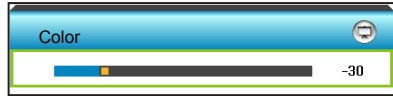


User Controls

Color

Adjust a video image from black and white to fully saturated color.

- ▶ Press the ◀ to decrease the amount of saturation in the image.
- ▶ Press the ▶ to increase the amount of saturation in the image.



Tint

Adjust the color balance of red and green.

- ▶ Press the ◀ to increase the amount of green in the image.
- ▶ Press the ▶ to increase the amount of red in the image.



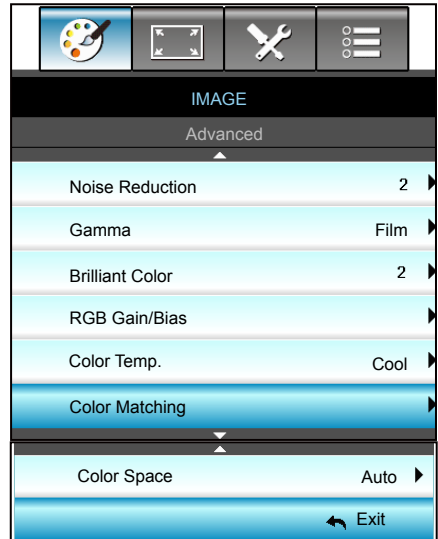
Reset

Choose "Yes" to return the factory default settings for "IMAGE".

Exit

Choose "Exit" to exit the menu.

IMAGE | Advanced



Noise Reduction

Selects a filter sensitivity to noise. A higher value may improve noisy sources, but it will soften the image.

- ▶ Press the ◀ to decrease the noise in the image.
- ▶ Press the ▶ to increase the noise in the image.



Gamma

This allows you to set up gamma curve type. After the initial setup and fine tuning is completed, utilize the Gamma Adjustment steps to optimize your image output.

- ▶ Film: for home theater.
- ▶ Graphics: for PC / Photo source.
- ▶ Blackboard: This mode should be selected to achieve optimum color settings when projecting onto a blackboard (green).
- ▶ DICOM SIM.: This mode can project a monochrome medical image such as an X ray radiography, MRI, etc.

Press the ◀ or ▶ to select the mode.



User Controls

BrilliantColor™

This adjustable item utilizes a new color-processing algorithm and enhancements to enable higher brightness while providing true, more vibrant colors in picture.

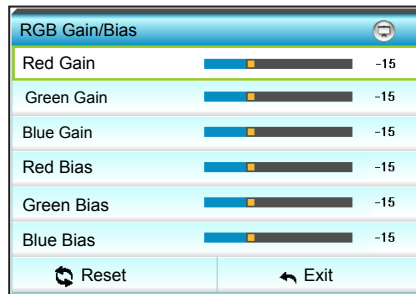
- ▶ Press the ◀ to stronger enhance the image.
- ▶ Press the ▶ to less enhance the image.



RGB Gain/Bias

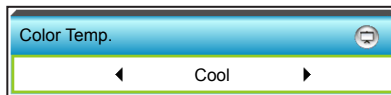
This settings allows to configure the brightness (gain) and contrast (bias) of an image.

- ▶ Press the ◀ to decrease a chosen color gain and bias.
- ▶ Press the ▶ to increase a chosen color gain and bias.



Color Temp.

Press the ◀ or ▶ to select a color temperature from Standard, Cool and Cold.



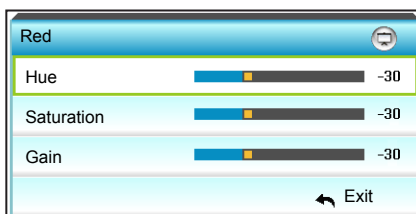
User Controls

Color Matching

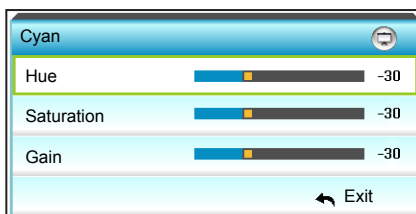
Press the ► into the next menu and then use ▲ or ▼ or ◀ or ▶ to select the item.



- ▶ Red: Press the ▲ or ▼ to select Hue, Saturation and Gain Colors. Then press the ◀ or ▶ to decrease or increase the value respectively.

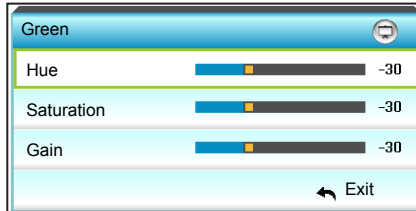


- ▶ Cyan: Press the ▲ or ▼ to select Hue, Saturation and Gain Colors. Then press the ◀ or ▶ to decrease or increase the value respectively.

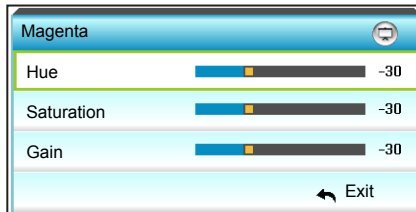


User Controls

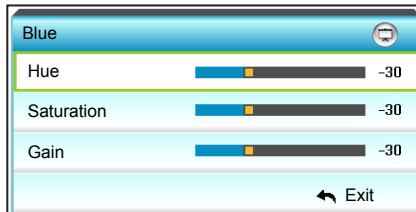
- ▶ Green: Press the ▲ or ▼ to select Hue, Saturation and Gain Colors. Then press the ◀ or ▶ to decrease or increase the value respectively.



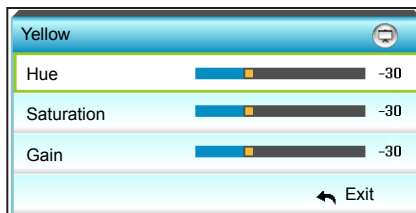
- ▶ Magenta: Press the ▲ or ▼ to select Hue, Saturation and Gain Colors. Then press the ◀ or ▶ to decrease or increase the value respectively.



- ▶ Blue: Press the ▲ or ▼ to select Hue, Saturation and Gain Colors. Then press the ◀ or ▶ to decrease or increase the value respectively.

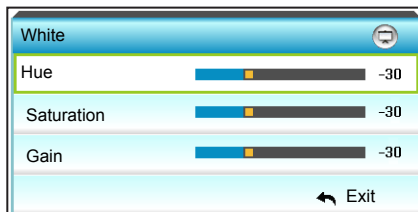


- ▶ Yellow: Press the ▲ or ▼ to select Hue, Saturation and Gain Colors. Then press the ◀ or ▶ to decrease or increase the value respectively.



User Controls

- ▶ White: Press the ▲ or ▼ to select Hue, Saturation and Gain Colors. Then press the ◀ or ▶ to decrease or increase the value respectively.



- ▶ Reset: Choose "↺ Reset" to return the factory default settings for color adjustments.

Color Space

Press the ◀ or ▶ to select an appropriate color matrix type from the following:

- ▶ Non-HDMI Input: Auto, RGB or YUV
- ▶ HDMI Input: Auto, RGB(0-255), RGB(16-235) or YUV.



Reset

- ▶ Current: Choose "Yes" to return the display parameters on this menu to the factory default settings.
- ▶ All: Choose "Yes" to return the display parameters on all menus to the factory default settings.

Exit

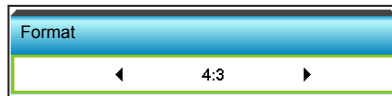
Choose "Exit" to exit the menu.

DISPLAY



Format

Press the ◀ or ▶ to choose your desired aspect ratio between 4:3, 16:9/16:10 (WXGA), LBX, Native, and Auto.



1080P

- ▶ 4:3: This format is for 4:3 input sources.
- ▶ 16:10: This format is for 16:10 input sources, like widescreen laptops.
- ▶ LBX: This format is for non-16x9, letterbox source and for users who use external 16x9 lens to display 2.35:1 aspect ratio using full resolution.
- ▶ Native: This format displays the original image without any scaling.
- ▶ AUTO: Automatically selects the appropriate display format.

Detail information about LBX mode:

1. Some Letter-Box Format DVDs are not enhanced for 16x9 TVs. In this situation, the image will not look right when displayed in 16:9 mode. In this situation, please try to using the 4:3 mode to view the DVD. If the content is not 4:3, there will be black bars around the image in 16:9 display. For this type of content, you can use LBX mode to fill the image on the 16:9 display.

User Controls

- If you use an external anamorphic lens, this LBX mode also allows you to watch a 2.35:1 content (include Anamorphic DVD and HDTV film source) that support anamorphic wide is enhanced for 16x9 Display in a wide 2.35:1 image. In this case, there are no black bars. Lamp power and vertical resolution are fully utilized.

16:9 Screen	480i/p	576i/p	1080i/p	720p	PC
4:3	Scale to 1440 x1080				
16:10	Scale to 1920x1080				
LBX	Scale to 1920 x 1440, in order to get the central 1920 x 1080 image displayed on the screen.				
Native	1:1 mapping centered No scaling will be made; the resolution is dependent on which input source and is then displayed.				
Auto	<ul style="list-style-type: none">▶ If this format is selected, the screen type will automatically become 16:9▶ If source is 4:3, auto resize to 1440 x 1080▶ If source is 16:9 auto resize to 1920 x 1080▶ If source is 16:10 auto resize to 1920 x 1200 and cut to 1920 x x1080 area display				

Zoom

- ▶ Press the ◀ to reduce the size of an image.
- ▶ Press the ▶ to magnify an image on the projection screen.



Edge Mask

Edge mask the image to remove video encoding noise on the edge of video source.

- ▶ Press the ◀ to decrease the edge mask in image.
- ▶ Press the ▶ to increase the edge mask in image.

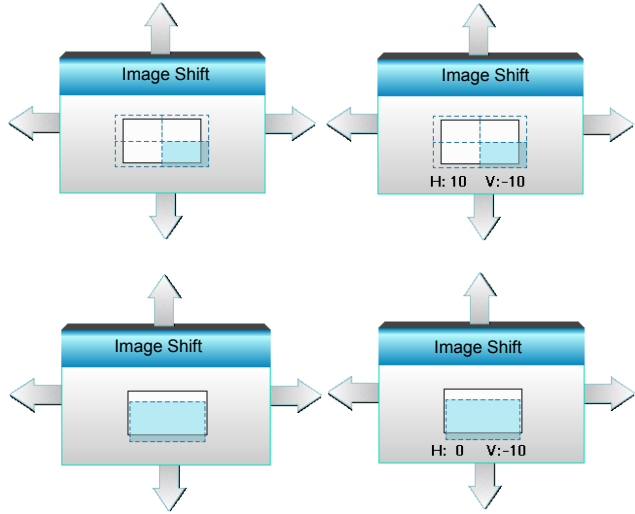


- ❖ Each I/O has different setting of "Edge Mask".
- ❖ "Edge Mask" and "Zoom" can't work at same time.

User Controls

Image Shift

Press the ► into the next menu as below and then press the ▲ or ▼ or ◀ or ▶ to select item.



- ▶ H: Press the ◀▶ to shift the projected image position horizontally.
- ▶ V: Press the ▲▼ to shift the projected image position vertically.

V Keystone

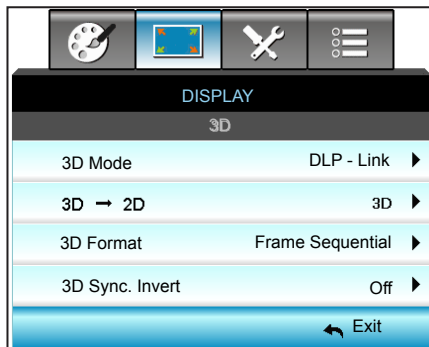
Press the ◀ or ▶ to adjust image distortion vertically and make a squarer image.



Exit

Choose "Exit" to exit the menu.

DISPLAY | 3D



3D Mode

- ▶ Off: Select "Off" to turn off 3D mode.
- ▶ Press the ◀ or ▶ to select the 3D mode.



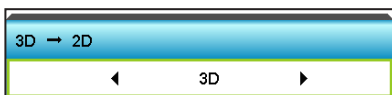
- ❖ 3D Format is only supported on 3D Timing on page 92.
- ❖ "3D Format" is only supported on non-HDMI 1.4a 3D timing.



- ▶ DLP-Link: Select "DLP-Link" to use optimized settings for DLP Link 3D Glasses. (refer to page 15).
- ▶ VESA 3D: Select "VESA 3D" to use optimized setting for VESA 3D Glasses. (refer to page 15).

3D -> 2D

- ▶ Press the ◀ or ▶ to select 3D -> 2D.



- ▶ 3D: Display 3D signal.
- ▶ L (Left): Display the left frame of 3D content.
- ▶ R (Right): Display the right frame of 3D content.

3D Format

- ▶ Press the ◀ or ▶ to select 3D format.



- ▶ Auto: When a 3D identification signal is detected, the 3D format is selected automatically.
- ▶ SBS: Display 3D signal in "Side-by-Side" format.
- ▶ Top and Bottom: Display 3D signal in "Top and Bottom" format.
- ▶ Frame Sequential: Display 3D signal in "Frame Sequential" format.

3D Sync. Invert

- ▶ Press the ◀ or ▶ to select 3D sync. invert.

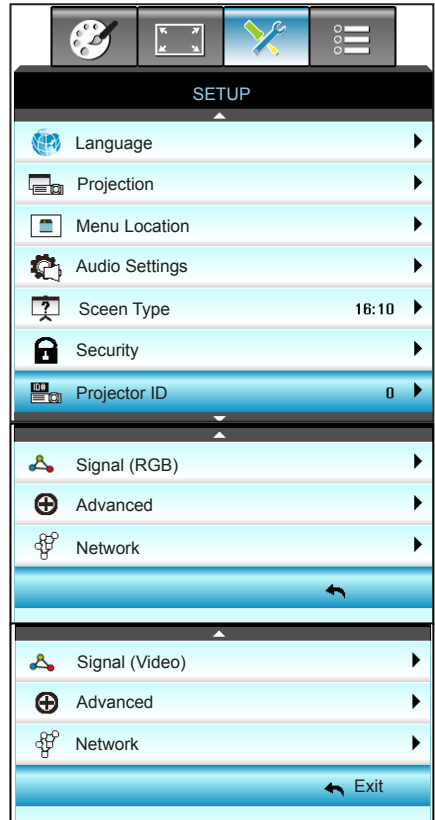


- ▶ Press the "On" to invert left and right frame contents.
- ▶ Press the "Off" for default frame contents.

Exit

Choose "Exit" to exit the menu.

SETUP



User Controls

Language

Choose the multilingual OSD menu. Press ► into the sub menu and then press the ▲ or ▼ or ◀ or ▶ key to select your preferred language. Press "Enter" to finalize the selection.

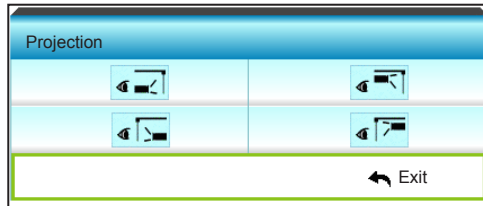
Language			
English	Nederlands	Čeština	Türkçe
Deutsch	Norsk/Dansk	عربي	فارسی
Français	Polski	繁體中文	Slovenský
Italiano	Русский	简体中文	Romanian
Español	Suomi	日本語	
Português	ελληνικά	한국어	
Svenska	Magyar	ไทย	◀ Exit

Projection

Press the ▲ or ▼ or ◀ or ▶ key to select the preferred projection.



- ❖ Rear-Desktop and Rear-Ceiling are to be used with a translucent screen.



Front-Projection

This is the default selection. The image is projected straight on the screen.



Rear-Desktop

When selected, the image will appear reversed.



Front-Ceiling

When selected, the image will turn upside down.



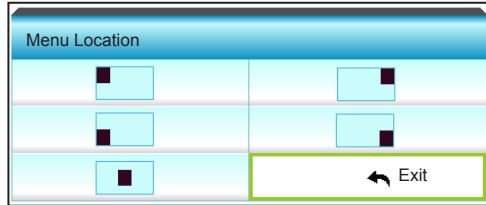
Rear-Ceiling

When selected, the image will appear reversed in upside down position

User Controls

Menu Location

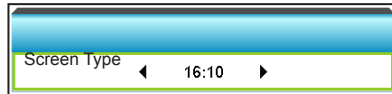
Press the ▲ or ▼ or ◀ or ▶ key to select the preferred menu location.



❖ *This screen type applies to WXGA only.

Screen Type

Press the ◀ or ▶ to choose the screen type from 16:10* or 16:9.



Projector ID

ID definition can be set up by menu (range 0-99), and allow user control an individual projector by RS232.

- ▶ Press the ◀ to decrease the projector ID number.
- ▶ Press the ▶ to increase the projector ID number.



Exit

Choose "Exit" to exit the menu.

SETUP | Audio Settings



- ❖ "Mute" function affects both internal and external speaker volume.

Internal Speaker

Choose the "On" or "Off" to turn on or off the internal speaker.



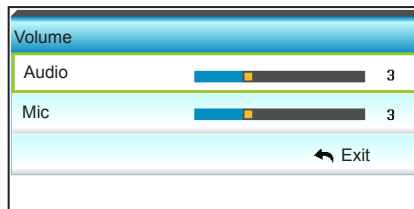
Mute

- ▶ Choose the "On" to turn mute on.
- ▶ Choose the "Off" to turn mute off.



Volume

- ▶ Press the ◀ to decrease the volume.
- ▶ Press the ▶ to increase the volume.

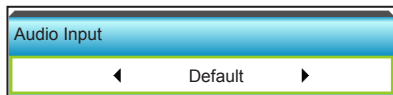


User Controls

Audio Input

The default audio settings are on the back panel of the projector. Use this option to reassign any of the Audio Inputs (1 or 2) to the current image source. Each Audio input can be assigned to more than one video source.

- ▶ Press ◀ or ▶ to select audio input.



- ▶ Default.
- ▶ Audio 1: (RCA) for Composite
- ▶ Audio 2: (Mini jack) for VGA

Exit

Choose "Exit" to exit the menu.

SETUP | Security



Security

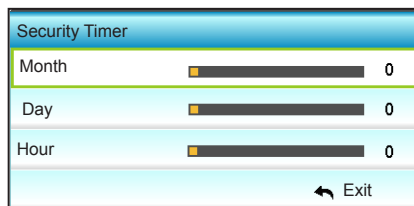
- ▶ On: Choose "On" to use security verification when the turning on the projector.
- ▶ Off: Choose "Off" to be able to switch on the projector without password verification.



Security Timer

Can be select the time (Month/Day/Hour) function to set the number of hours the projector can be used. Once this time has elapsed you will be requested to enter your password again.

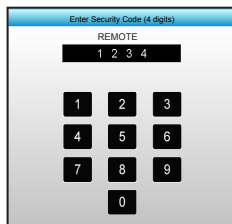
Press the ◀ or ▶ to set the month, day, and hour.



User Controls



- ❖ Pass-code default value is "1234" (first time).



Change Password

- ▶ First time:
 1. Press "Enter" key to set the password.
 2. The password has to be 4 digits.
 3. Use number button on the remote or on-screen numeric keypad to enter your new password and then press "Enter" key to confirm your password.
- ▶ Change Password:

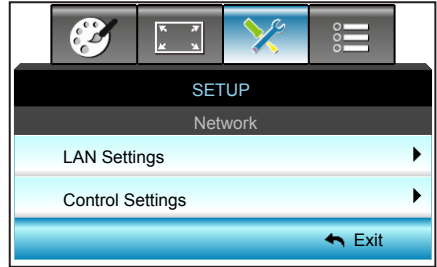
(If your remote does not have a number keypad, please use the up/down arrows to change each digit of the password, then press enter to confirm)

 1. Press "Enter" to input old password.
 2. Use number button or on-screen numeric keypad to enter current password and then press "Enter" to confirm.
 3. Enter new password (4 digits in length) using the number buttons on the remote, then press "Enter" to confirm.
 4. Enter new password again and press "Enter" to confirm.
 - ▶ If the incorrect password is entered 3 times, the projector will automatically shut down.
 - ▶ If you have forgotten your password, please contact your local office for support.

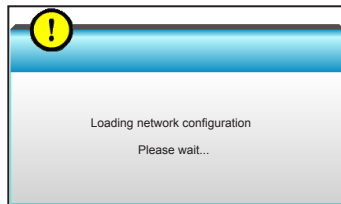
Exit

Choose "Exit" to exit the menu.

SETUP | Network



LAN Settings

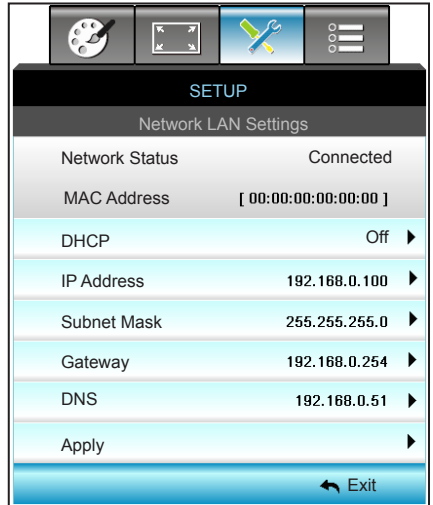


For more information on LAN Settings, refer to page 56-57, and 60-67.

Control Settings

For more information on Control Settings, refer to page 58-59.

SETUP | Network|LAN Settings



Network Status

Display the network connection status (read-only).

MAC Address

Display the MAC address (read-only).

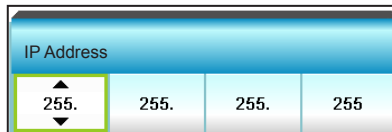
DHCP



- ▶ On: Projector will obtain an IP address automatically from your network.
- ▶ Off: To assign IP, Subnet Mask, Gateway and DNS configuration manually.

Exiting OSD will automatically apply the entered values.

IP Address



Display the IP address.

User Controls

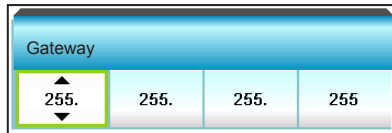
Subnet Mask



A screenshot of a configuration window titled "Subnet Mask". It features a blue header bar with the title. Below the header, there are four input fields for IP address segments. The first field, containing "255.", is highlighted with a green border and has up and down arrow icons above and below it. The other three fields contain "255.", "255.", and "255" respectively.

Display subnet mask number.

Gateway



A screenshot of a configuration window titled "Gateway". It features a blue header bar with the title. Below the header, there are four input fields for IP address segments. The first field, containing "255.", is highlighted with a green border and has up and down arrow icons above and below it. The other three fields contain "255.", "255.", and "255" respectively.

Display the default gateway of the network connected to the projector.

DNS



A screenshot of a configuration window titled "DNS". It features a blue header bar with the title. Below the header, there are four input fields for IP address segments. The first field, containing "255.", is highlighted with a green border and has up and down arrow icons above and below it. The other three fields contain "255.", "255.", and "255" respectively.

Display DNS number.

Apply

Press ► and then choose "Yes" to apply the selection.



A screenshot of a confirmation dialog box titled "Apply". It has a blue header bar with the title. Below the header, there are two buttons: "No" and "Yes". The "No" button is highlighted with a green border.

Exit

Choose "Exit" to exit the menu.

SETUP | Network|Control Settings



Crestron



Use this function to select the network function (port: 41794). For more information, please visit <http://www.crestron.com> and www.crestron.com/getroomview.

- ▶ On: The Crestron function is active.
- ▶ Off: The Crestron function is inactive.

Extron



Use this function to select the network function (port: 2023).

- ▶ On: The Extron function is active.
- ▶ Off: The Extron function is inactive.

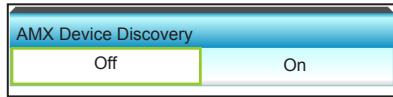
PJ Link



Use this function to select the network function (port: 4352).

- ▶ On: The PJ Link function is active.
- ▶ Off: The PJ Link function is inactive.

AMX Device Discovery



Use this function to select the network function (port: 1023).

- ▶ On: The AMX Discovery function is active.
- ▶ Off: The AMX Discovery function is inactive.

Telnet



Use this function to select the network function (port: 23).

- ▶ On: Telnet is enabled.
- ▶ Off: Telnet is disabled.

Exit

Choose "Exit" to exit the menu.

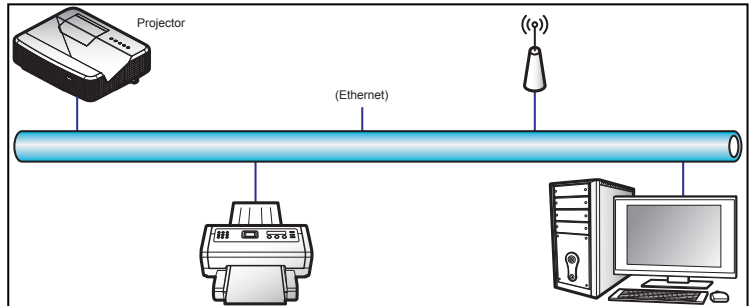
User Controls

NOTE

- ❖ Use Ethernet Normal Cable to connect the projector to LAN..

LAN RJ45 Function

For simplicity and ease of operation, the W320UST projector provides diverse networking and remote management features. The LAN/RJ45 function of the projector through a network, such as remotely manage: Power On/Off, Brightness and Contrast settings. Also, projector status information, such as: Video-Source, Sound-Mute, etc.



Wired LAN Terminal Functionalities

This projector can be controlled by using a PC (laptop) or other external device via LAN/RJ45 port and compatible with Crestron / Extron / AMX (Device Discovery) / PJLink.

- ▶ 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.

Wired LAN Terminal Functionalities

W320UST projector is supported by the specified commands of the Crestron Electronics controller and related software, for example RoomView®.

<http://www.crestron.com/>

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

<http://www.extron.com/>

This projector is supported by AMX (Device Discovery).

<http://www.amx.com/>

User Controls

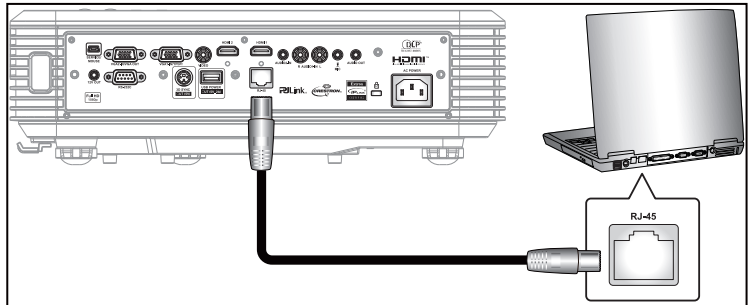
This projector supports all commands of PJLink Class1 (Version 1.00).

<http://pjlink.jbmia.or.jp/english/>

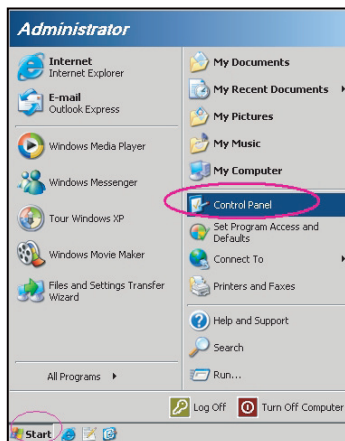
For more detailed information about the various types of external devices which can be connected to the LAN/RJ45 port and remote/control the project, as well as the supported commands for these external devices, please contact the Support-Service directly.

LAN RJ45

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

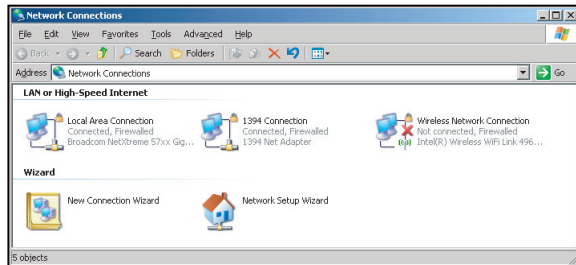


2. On the PC (Laptop), select Start > Control Panel > Network Connections.

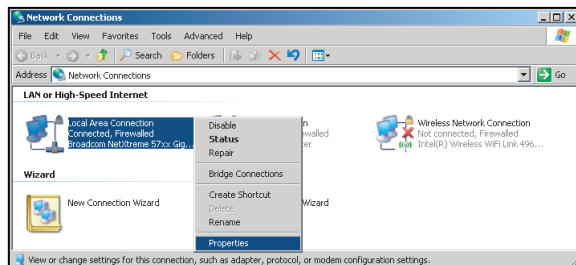


User Controls

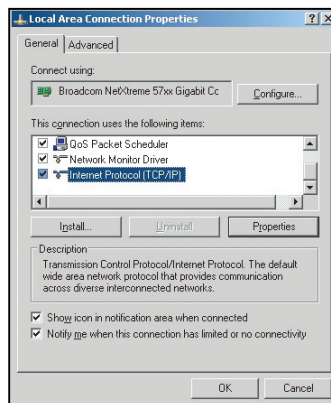
3. Right-click on the Local Area Connection, and select Property.



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

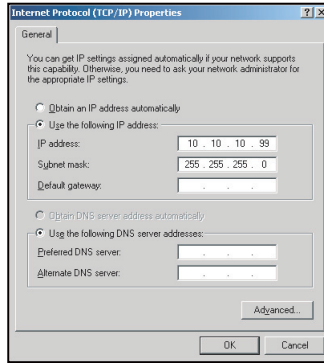


5. Click "Properties".

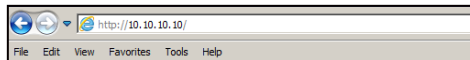


User Controls

6. Type in the IP address and Subnet mask, then press "OK".



7. Press the "Menu" button on the projector.
8. Use ◀▶ keys to select SETUP > Network > LAN Settings.
9. After getting into LAN Settings, input the following connection parameters:
 - ▶ DHCP: Off
 - ▶ IP Address: 10.10.10.10
 - ▶ Subnet Mask: 255.255.255.255
 - ▶ Gateway: 0.0.0.0
 - ▶ DNS: 0.0.0.0
10. Press "Enter" to confirm settings.
11. Open a web browser, for example Microsoft Internet Explorer, with Adobe Flash Player 9.0 or higher installed.
12. In the Address bar, input the projector's IP address: 10.10.10.10.



User Controls

13. Press "Enter".

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

Information Page

The screenshot shows the 'Information Page' of the Optoma remote management interface. At the top, there is a navigation bar with 'Logout', 'Tools', 'Info', and 'Help' options. The Optoma logo is prominently displayed. The page is divided into two main sections: 'Projector Information' and 'Projector Status'. Each section contains several fields with their respective values. At the bottom center, there is an 'exit' button.

Projector Information		Projector Status	
Projector Name	EX810ST1	Power Status	On
Location	Room	Source	HDMI
Firmware	B02 2011-09-21	Preset Mode	Presentation
Mac Address	00:50:41:77:31:24	Projector Position	Front Table
Resolution	0 x 0 0Hz	Lamp Mode	STD
Lamp Hours	10	Error Status	
Assigned To	Sir		

Main Page

The screenshot shows the 'Main Page' of the Optoma remote management interface. It features a navigation bar with 'Tools', 'Info', and 'Help' options. The Optoma logo is at the top. Below the logo, there are control buttons for 'Power', 'Vol -', 'Mute', and 'Vol +'. The central part of the page is a 'SourceList' menu with a scrollable list of sources: 'VGA1', 'VGA2', 'Video', 'HDMI', and 'Flash Drive'. To the right of the list are navigation buttons: 'Menu', 'Up', 'Auto', 'Left', 'OK', 'Right', 'AV Mute', 'Down', and 'Source'. At the bottom, there are sliders for 'Freeze', 'Contrast', 'Brightness', and 'Color'.

User Controls

Tool Page

The screenshot shows the Optoma web interface for configuring a projector. The interface is divided into several sections:

- Model:** Optoma
- Navigation:** Logout, Tools, Info, Help
- Optoma Logo:** Optoma
- Creston Control:**
 - IP Address: 192.168.0.2
 - IP ID: 5
 - Port: 41734
 - Send button
- Projector:**
 - Projector Name: EX0108T1
 - Location: Room
 - Name: Sir
 - Send button
 - DHCP: DHCP Enabled
 - IP Address: 192.168.0.100
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 192.168.0.254
 - DNS Server: 192.168.0.51
 - Host Name:
 - Send button
- User Password:**
 - Enabled
 - New Password:
 - Confirm:
 - Send button
- Default Language:**
 - Automatic (dropdown)
 - Send button
- Admin Password:**
 - Enabled
 - New Password:
 - Confirm:
 - Send button
- Exit:** Exit button

Contact IT Helpdesk

The screenshot shows a simple contact form titled "HELP DESK". It features a text input field for entering a message, a "Send" button, and a close button (X) in the top right corner.

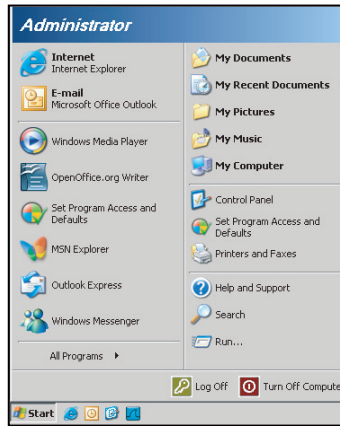
RS232 by Telnet Function

There is alternative RS232 command control way, in projector so called "RS232 by TELNET" for LAN/RJ45 interface.

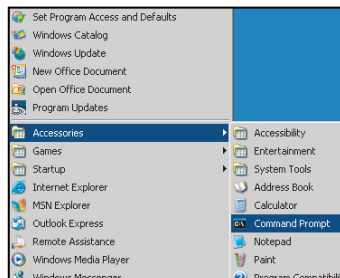
User Controls

Quick Start-Guide for "RS232 by Telnet"

- ▶ Check and get the IP address on OSD of the projector.
- ▶ Make sure that the PC/laptop can access the web-page of the projector.
- ▶ Make sure that "Windows Firewall" setting is set disabled in case of "TELNET" function filtering out by PC/laptop.



1. Start > All Programs.> Accessories > Command Prompt.



2. Input the command format as follows:
telnet ttt.xxx.yyy.zzz 23 ("Enter" key pressed)
(ttt.xxx.yyy.zzz: IP-Address of the projector)
3. If Telnet-Connection ready, and user can have RS232 command input, then "Enter" key pressed, the RS232 command will be workable.

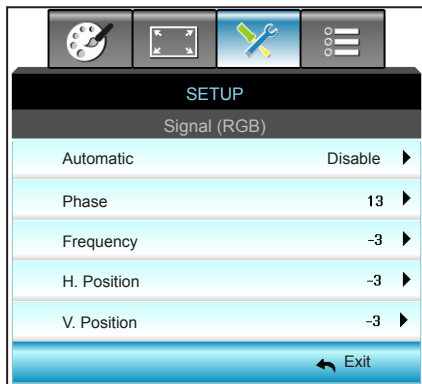


- ❖ In Windows XP built-in "TELNET.exe" utility, "Enter" key pressed will have "Carriage-Return" and "New-Line" code.

Specification for "RS232 by TELENT":

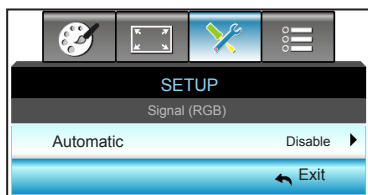
1. Telnet: TCP.
2. Telnet port: 23 (for more detail, kindly please get contact with the service agent or team).
3. Telnet utility: Windows "TELNET.exe" (console mode).
4. Disconnection for RS232-by-Telnet control normally: Close
5. Windows Telnet utility directly after TELNET connection ready.
 - ▶ Limitation 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).

SETUP | Signal (RGB)



Automatic

- ❖ "Signal" is only supported in Analog VGA (RGB) signal.
- ❖ If "Signal" is automatic, the phase, frequency items are grayed out, and if "Signal" is not automatic, the phase, frequency items will appear for the user to manually tune and are saved Phase in the settings after that for the next time projector is turned off and on again.



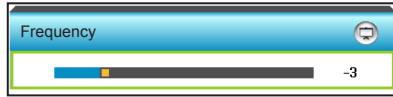
Automatically selects the signal. If you use this function, the Phase, frequency items are grayed out, and if Signal is not automatic, the phase, frequency items will appear for user to manually tune and saved in settings after that for next time projector turns off and on again



Synchronize the signal timing of the display with the graphic card. If the image appears to be unstable or flickers, use this function to correct it.

- ▶ Press the ◀ to decrease the phase value.
- ▶ Press the ▶ to increase the phase value.

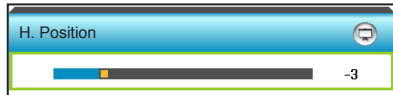
Frequency



Change the display data frequency to match the frequency of your computer's graphic card. Use this function only if the image appears to flicker vertically.

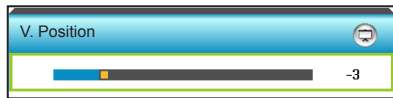
- ▶ Press the ◀ to decrease the frequency.
- ▶ Press the ▶ to increase the frequency.

H. Position (Horizontal Position)



- ▶ Press the ◀ to move the image left.
- ▶ Press the ▶ to move the image right.

V. Position (Vertical Position)

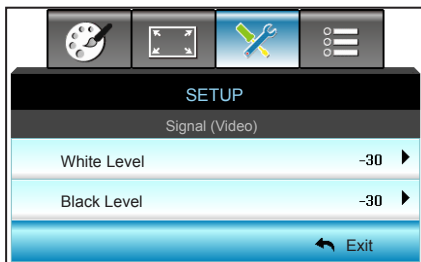


- ▶ Press the ◀ to move the image down.
- ▶ Press the ▶ to move the image up.

Exit

Choose "Exit" to exit the menu.

SETUP | Signal (Video)



White Level



Adjust the overall white level of the projected image by applying a gain to the input image.

- ▶ Press the ◀ to decrease the white level.
- ▶ Press the ▶ to increase the white level.

Black Level



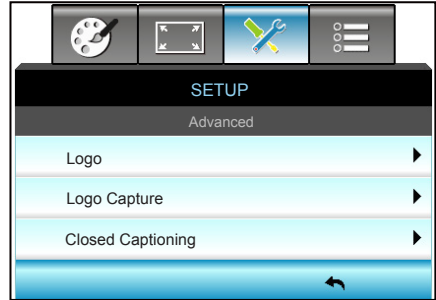
Adjust the overall black level of the projected image by applying an offset to the input image.

- ▶ Press the ◀ to decrease the black level.
- ▶ Press the ▶ to increase the black level.

Exit

Choose "Exit" to exit the menu.

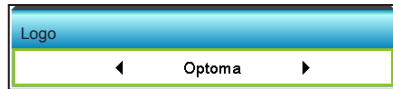
SETUP | Advanced



Logo



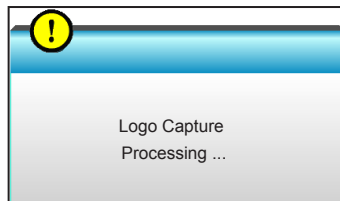
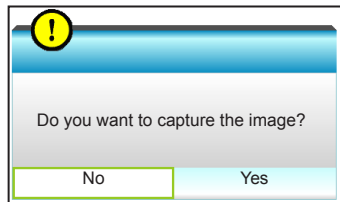
- ❖ For a successful logo capture, ensure that the on-screen image does not exceed the projector native resolution. (1280 x 800).



Use this function to set the desired startup screen. If changes are made they will take effect the next time the projector is powered on.

- ▶ Neutral: Logo is not displayed on startup screen.
- ▶ Optoma: Optoma logo is displayed on startup screen.
- ▶ User: User-defined background is shown on startup screen.

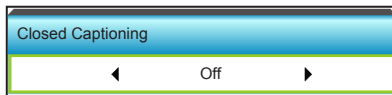
Logo Capture



User Controls

Choose "On" and "Yes" to capture an image of the picture currently displayed on screen.

Closed Captioning

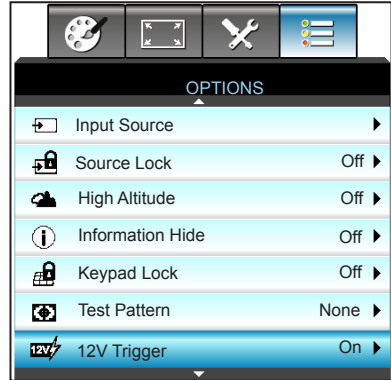


Closed Captioning is a text version of the program sound or other information displayed on the screen. If the input signal contains closed captions, you can turn on the feature and watch the channels. Press ◀ or ▶ to select between CCI, or CC2. Choose Off to disable this function.

Exit

Choose "Exit" to exit the menu.

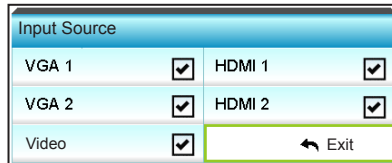
OPTIONS



- ❖ "VGA2" depends on the settings of "VGA2 Switch".

Input Source

Use this option to enable/disable input sources. Press ► to enter the sub menu and select which sources you require. Press "Enter" to finalize the selection. The projector will only search for inputs that are enabled.



Source Lock

- On: The projector will only search current input connection.
- Off: The projector will search for other signals if the current input signal is lost.



High Altitude

When "On" is selected, the fans will spin faster. This feature is useful in high altitude areas where the air is thin.



User Controls

Information Hide

- ▶ On: Choose "On" to hide the info message.
- ▶ Off: Choose "Off" to show the "searching" message.



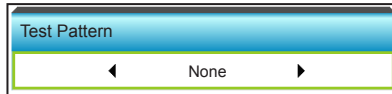
Keypad Lock

When the keypad lock function is "On", the Keypad will be locked however, the projector can be operated by the remote control. By selecting "Off", you will be able to unlock the Keypad.



Test Pattern

Display a test pattern. There are Grid, White Pattern and None.

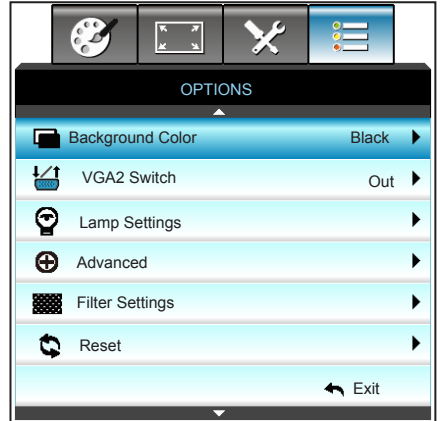


12V Trigger

- ▶ Off: Choose "Off" to disable the trigger.
- ▶ On: Choose "On" to enable the trigger.



OPTIONS



Background Color

Use this feature to display a "Black", "Red", "Blue", "Green" or "White", screen when no signal is available.



VGA2 Switch

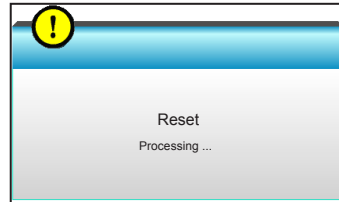
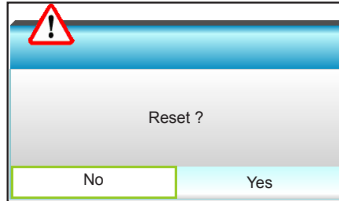
When the "VGA2 Switch" feature is "In" then VGA2 port functions as input port. If the "VGA2 Switch" is "Out" then the port functions as output port for VGA1.



User Controls

Reset

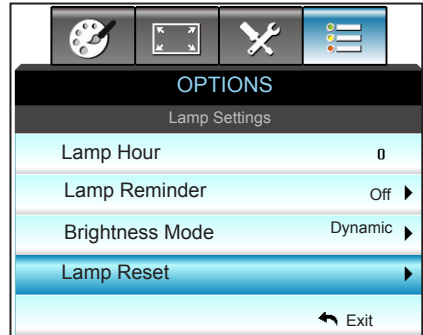
- ▶ Current: Choose "Yes" to return the display parameters on this menu to the factory default settings.
- ▶ All: Choose "Yes" to return the display parameters on all menus to the factory default settings.



Exit

Choose "Exit" to exit the menu.

OPTIONS | Lamp Settings



- ❖ When ambient temperature is over 40 °C in operating, the projector will switch to Eco automatically.
- ❖ Dynamic mode-lamp power can be dynamically adjusted from 100% to 30%.

Lamp Hours

Display the projection time.

Lamp Reminder

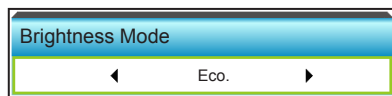
Choose this function to show or to hide the warning message when the changing lamp message is displayed.

The message will appear 30 hours before suggested replacement of lamp.



Brightness Mode

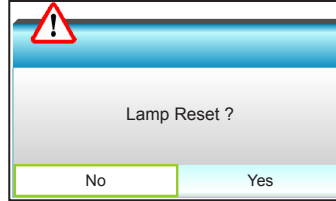
- ▶ Bright: Choose "Bright" to increase the brightness.
- ▶ Eco.: Choose "Eco." to dim the projector lamp which will lower power consumption and extend the lamp life.
- ▶ Dynamic: Choose "Dynamic" to dim the lamp power which will be based on brightness level of the content and adjust lamp power consumption between 100% and 30% dynamically. The lamp life will be extended.
- ▶ Eco+: When Eco+ mode is activated, the brightness level of the content is automatically detected to significantly reduced lamp power consumption (up to 70%) during periods of inactivity.



User Controls

Lamp Reset

Resets the lamp hour counter after replacing the lamp.



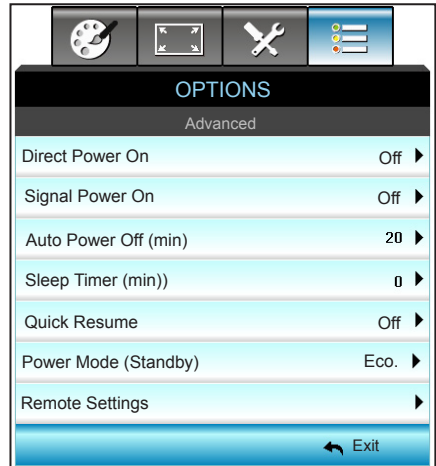
Exit

Choose "Exit" to exit the menu.

Lamp Behavior in different mode and function:

Brightness Mode	Bright	Eco	Dynamic	Eco+
White Pattern	100%	80%	100%	80%
Dimming range	N/A	N/A	100%~30%	80%~30%
Black Pattern	100%	80%	30% (Sleep mode)	30% (Sleep mode)
AV Mute	30% (Sleep mode)	30% (Sleep mode)	30% (Sleep mode)	30% (Sleep mode)
Quick Resume	30% (Sleep mode)	30% (Sleep mode)	30% (Sleep mode)	30% (Sleep mode)

OPTIONS | Advanced



Direct Power On

Choose "On" to activate Direct Power mode. The projector will automatically power on when AC power is supplied, without pressing the "⏻" key on the projector Control Panel or on the remote control.



- ❖ The Signal Power On function is not applicable if the input source is Video.

Signal Power On

Choose "On" to activate Signal Power mode. The projector will automatically power on when a signal is detected, without pressing the "⏻" key on the projector Control Panel or on the remote control.



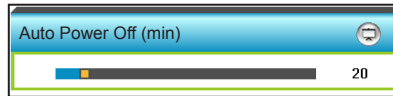
User Controls



- ❖ The value of sleep timer will be reset to zero after the projector power off.

Auto Power Off (min)

Sets the countdown timer interval. The countdown timer will start, when there is no signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).



- ▶ Press the ◀ to decrease the timer interval.
- ▶ Press the ▶ to increase the timer interval.

Sleep Timer (min)

Sets the countdown timer interval. The countdown timer will start, with or without a signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).



- ▶ Press the ◀ to decrease the timer interval.
- ▶ Press the ▶ to increase the timer interval.

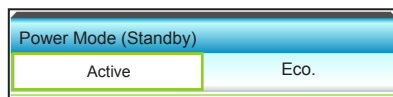
Quick Resume

- ▶ On: If the projector is accidentally turned off, this feature allows the projector to be instantly powered on again, if selected within a period of 100 seconds.
- ▶ Off: The fan will start cooling the system after 10 seconds when user turns off the projector.



Power Mode (Standby)

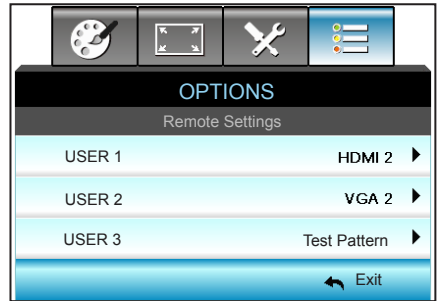
- ▶ Eco.: Choose "Eco." to save power dissipation further < 0.5W.
- ▶ Active: Choose "Active" to return to normal standby.



Exit

Choose "Exit" to exit the menu.

OPTIONS | Remote Settings



USER 1

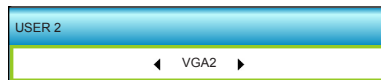
The default value is HDMI2.



Press the ▶ into the next menu and then press the ◀ or ▶ to select HDMI2/VGA2/Test Pattern/LAN/Brightness/Contrast/Sleep Timer/ Color Matching/Color Temp/Gamma/ Source Lock / Projection/Lamp Settings/Zoom/Freeze.

USER 2

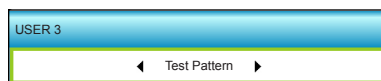
The default value is VGA2.



Press the ▶ into the next menu and then press the ◀ or ▶ to select HDMI2/VGA2/Test Pattern/LAN/Brightness/Contrast/Sleep Timer/ Color Matching/Color Temp/Gamma/ Source Lock / Projection/Lamp Settings/Zoom/Freeze.

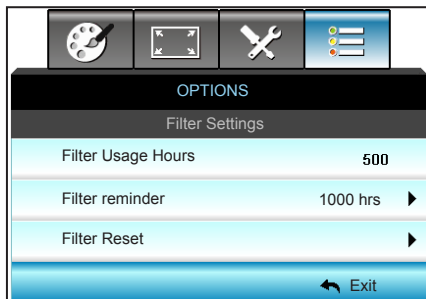
USER 3

The default value is Test Pattern.



Press the ▶ into the next menu and then press the ◀ or ▶ to select HDMI2/VGA2/Test Pattern/LAN/Brightness/Contrast/Sleep Timer/ Color Matching/Color Temp/Gamma/ Source Lock / Projection/Lamp Settings/Zoom/Freezen.

OPTIONS | Filter Settings



- ❖ "Filter Usage Hours / Filter Reminder / Filter Reset" will only appear when "Optional Filter Installed" is "Yes".

Filter Usage Hours

Display the filter time.

Filter Reminder

Choose this function to show or hide the warning message when the changing filter message is displayed. (Factory default setting: 1000 hours)



- ▶ Press the ◀ to decrease the time period.
- ▶ Press the ▶ to increase the time period.

Filter Reset

Reset the dust filter counter after replacing or cleaning the dust filter.



Exit

Choose "Exit" to exit the menu.

Troubleshooting

If you experience a problem with your projector, please refer to the following information. If a problem persists, please contact your local reseller or service center.

Image Problems

No image appears on-screen

- ▶ Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
- ▶ Ensure the pins of connectors are not crooked or broken.
- ▶ Check if the projection lamp has been securely installed. Please refer to the "Replacing the Lamp" section.
- ▶ Make sure the projector is switched on.
- ▶ Ensure that the "AV Mute" feature is not turned on.

Image is out of focus

- ▶ Make sure the projection screen is between the required distance from the projector. (refer to pages 20-22)

The image is stretched when displaying 16:9 DVD title

- ▶ When you play anamorphic DVD or 16:9 DVD, the projector will show the best image in 16: 9 format on projector side.
- ▶ If you play the LBX format DVD title, please change the format as LBX in projector OSD.
- ▶ If you play 4:3 format DVD title, please change the format as 4:3 in projector OSD.
- ▶ If the image is still stretched, you will also need to adjust the aspect ratio by referring to the following:
- ▶ Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.

Image is too small or too large

- ▶ Move the projector closer to or further from the screen.
- ▶ Press "Menu" on the projector panel, go to "Display-->Format". Try the different settings.

Image has slanted sides:

- ▶ If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.
- ▶ Use "Display-->V Keystone" from the OSD to make an adjustment.

Image is reversed

- ▶ Select "Setup-->Projection" from the OSD and adjust the projection direction.

Blurry double image

- ▶ Press "3D Format" button and switch to "Off" to avoid normal 2D image is blurry double image.

Two images, side-by-side format

- ▶ Press "3D Format" button and switch to "SBS" for input signal is HDMI 1.3 2D 1080i side-by-side.

Image does not display in 3D

- ▶ Check if the battery of 3D glasses is drained.
- ▶ Check if the 3D glasses is turned on.
- ▶ When the input signal is HDMI 1.3 2D (1080i side-by-side half), press "3D Format" button and switch to "SBS".

Other Problems

The projector stops responding to all controls

- ▶ If possible, turn off the projector, then unplug the power cord and wait at least 20 seconds before reconnecting power.

Lamp burns out or makes a popping sound

- ▶ When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp" section.






Remote Control Problems

If the remote control does not work


- ▶ Check the operating angle of the remote control is within $\pm 15^\circ$ both horizontally and vertically of one of the IR receivers on the projector.
- ▶ Make sure there are not any obstructions between the remote control and the projector. Move to within 6 m (20 ft) of the projector.
- ▶ Make sure batteries are inserted correctly.
- ▶ Replace batteries if they are exhausted.

Appendices

LED Lighting Messages

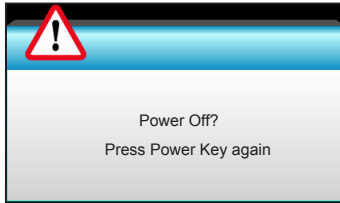
Message			
	Power LED (Red/Green/Blue)	Temp-LED (Red)	Lamp-LED (Red)
Standby state (Input power cord)	Red	○	○
Power on (Warm- ing)	Flashing Blue	○	○
Lamp lighting	Blue	○	○
Power off (Cooling)	Flashing Blue. Red (cooling fan has turned off)	○	○
Quick Resume (100 secs)	Flashing Blue	○	○
Error (Over temp.)	Flashing Red		○
Error (Fan failure)	Flashing Red	Flashing	
Error (Lamp failure)	Flashing Red		



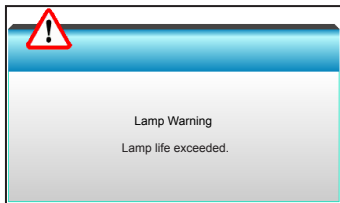
❖ Steady light → 
No light → ○

On Screen Messages

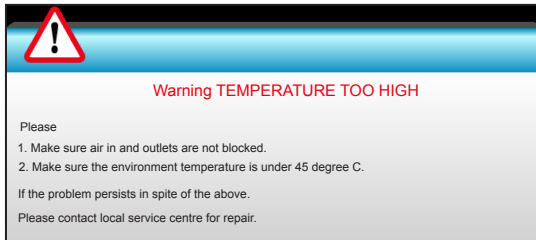
❖ Power off:



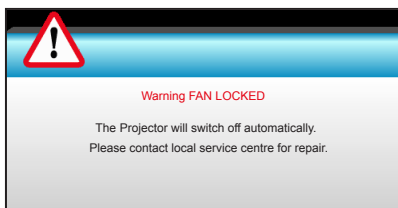
❖ Lamp warning:



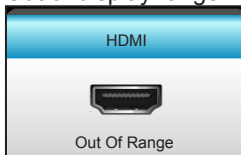
❖ Temperature warning:



❖ Fan failed:

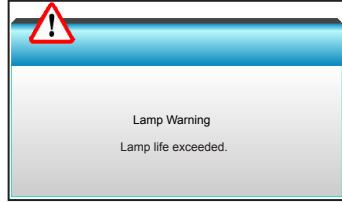


❖ Out of display range:



Replacing the Lamp

The projector automatically detects the lamp life. When the lamp life is nearing the end of use, you will receive a warning message.



When you see this message, please contact your local reseller or service center to change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.



Warning: If ceiling mounted, please use caution when opening the lamp access panel. It is recommended to wear safety glasses if changing the bulb when ceiling mounted. "Caution must be used to prevent any loose parts from falling out of projector."



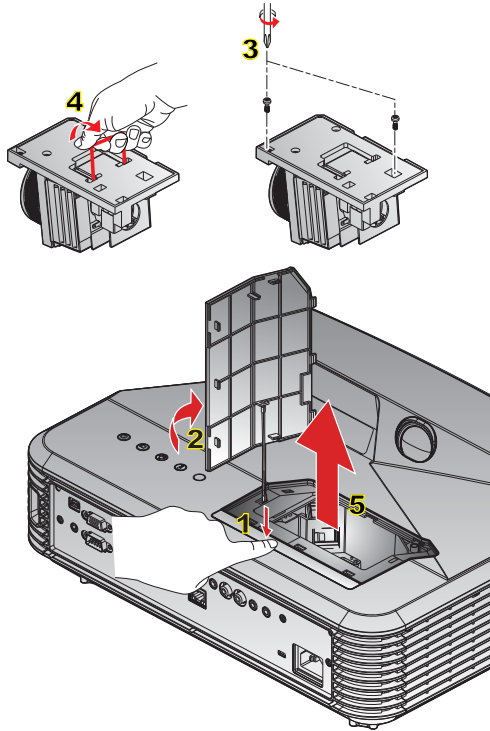
Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!



Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.

NOTE

- ❖ The screw on the lamp cover and the lamp cannot be removed.
- ❖ The projector cannot be turned on if the lamp cover has not been placed back on the projector.
- ❖ Do not touch the glass area of the lamp. Hand oil can cause the lamp to shatter. Use a dry cloth to clean the lamp module if it was accidentally touched.



Lamp Replacement Procedure:

1. Switch off the power to the projector by pressing the "⏻" button on the remote control or on the Control Panel of the projector.
 2. Allow the projector to cool down for at least 30 minutes.
 3. Disconnect the power cord.
 4. Press the release button to disengage the lamp cover from the main unit. **1**
 5. Use your fingernail to pry the lamp cover loose and then remove it. **2**
 6. Unscrew the two screws on the lamp module. **3**
 7. Lift up the lamp handle **4** and remove the lamp module slowly and carefully. **5**
- To replace the lamp module, reverse the previous steps.
10. Turn on the projector and reset the lamp timer.

Lamp Reset: (i) Press "Menu" → (ii) Select "OPTIONS" → (iii) Select "Lamp Settings" → (iv) Select "Lamp Reset" → (v) Select "Yes".

Installing and Cleaning the Dust Filter

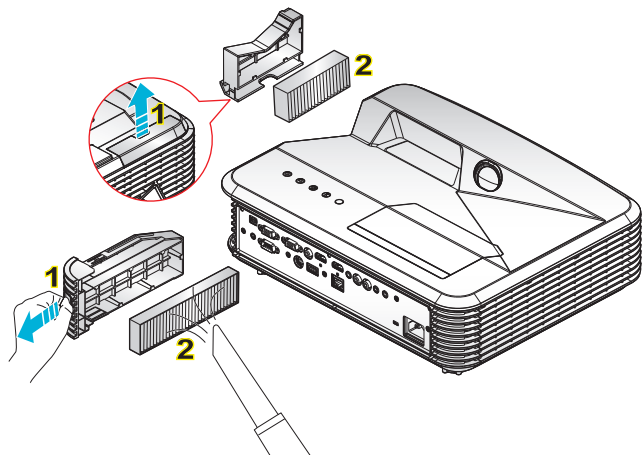


- ❖ Dust filters are only required/supplied in selected regions with excessive dust.

We recommend you clean the dust filter every 500 hours of operation, or more often if you are using the projector in a dusty environment.

When the warning message appears on the screen, do the following to clean the air filter:

The usage time of the dust filter is reached.
Please clean the dust filters for better performance.



○ Air Filter Cleaning Procedure:

1. Switch off the power to the projector by pressing the "⏻" button on the remote control or on the Control Panel of the projector.
2. Disconnect the power cord.
3. Pull out the latch to remove the dust filter compartment, as shown in the illustration. **1**
4. Carefully remove the air filter. Then clean or replace the dust filter. **2**
To install the dust filter, reverse the previous steps.
5. Turn on the projector and reset the filter usage counter after the dust filter is replaced.

Compatibility Modes

HDMI Compatibility

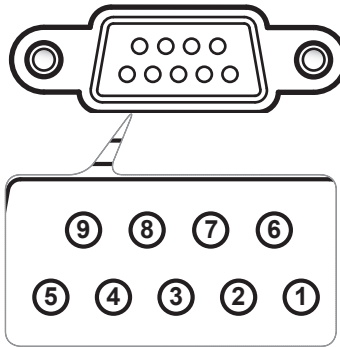
Digital		
B0/Established timing	B0/Standard timing	B0/Detail timing:
720 x 400 @ 70Hz 640 x 480 @ 60Hz 640 x 480 @ 67Hz 640 x 480 @ 72Hz 640 x 480 @ 75Hz 800 x 600 @ 56Hz 800 x 600 @ 60Hz 800 x 600 @ 72Hz 800 x 600 @ 75Hz 1024 x 768 @ 60Hz 1024 x 768 @ 70Hz 1024 x 768 @ 75Hz 1280 x 1024 @ 75Hz	XGA / WXGA 1440 x 900 @60Hz 1024 x 768 @120Hz 1280 x 800 @60Hz 1280 x 1024 @60Hz 1680 x 1050 @60Hz 1280 x 720 @60Hz 1280 x 720 @120Hz 1600 x 1200 @60Hz 1080P 1280 x 720 @ 60Hz 1280 x 800 @ 60Hz 1280 x1024 @ 60Hz 1400 x 1050 @ 60Hz 1600 x 1200 @ 60Hz 1440 x 900 @60Hz	Native timing: XGA: 1024 x 768 @60Hz WXGA: 1280 x 800 @60Hz 1080P: 1920 x 1080 @60Hz
B1/Video mode	B1/Detail timing:	
640 x 480p @ 60Hz 720 x 480p @ 60Hz 1280 x 720p @ 60Hz 1920 x 1080i @ 60Hz 720(1440) x 480i @ 60Hz 1920 x 1080p @ 60Hz 720 x 576p @ 50Hz 1280 x 720p @ 50Hz 1920 x 1080i @ 50Hz 720(1440) x 576i @ 50Hz 1920 x 1080p @ 50Hz 1920 x 1080p @ 24Hz 1920 x 1080p @ 30Hz	720 x 480p @ 60Hz 1280 x 720p @ 60Hz 1366 x 768 @ 60Hz 1920 x 1080i @ 50Hz 1920 x 1080p @ 60Hz	

True 3D Video Compatibility

Input resolution	Input timing		
HDMI 1.4b 3D Input	1280 x 720p @ 50Hz	Top-and-Bottom	
	1280 x 720p @ 60Hz	Top-and-Bottom	
	1280 x 720p @ 50Hz	Frame packing	
	1280 x 720p @ 60Hz	Frame packing	
	1920 x 1080i @ 50 Hz	Side-by-Side (Half)	
	1920 x 1080i @ 60 Hz	Side-by-Side (Half)	
	1920 x 1080p @ 24 Hz	Top-and-Bottom	
	1920 x 1080p @ 24 Hz	Frame packing	
HDMI 1.3	1920 x 1080i @ 50Hz	Side-by-Side (Half)	While 3D Format is "SBS"
	1920 x 1080i @ 60Hz		
	1280 x 720p @ 50Hz		
	1280 x 720p @ 60Hz		
	1920 x 1080i @ 50Hz	Top-and-Bottom	While 3D Format is "Top and Bottom"
	1920 x 1080i @ 60Hz		
	1280 x 720p @ 50Hz		
	1280 x 720p @ 60Hz		
	480i	HQFS	While 3D Format is "Frame sequential"

RS232 Commands and Protocol Function List

RS232 Pin Assignments



- ❖ RS232 shell is grounded.

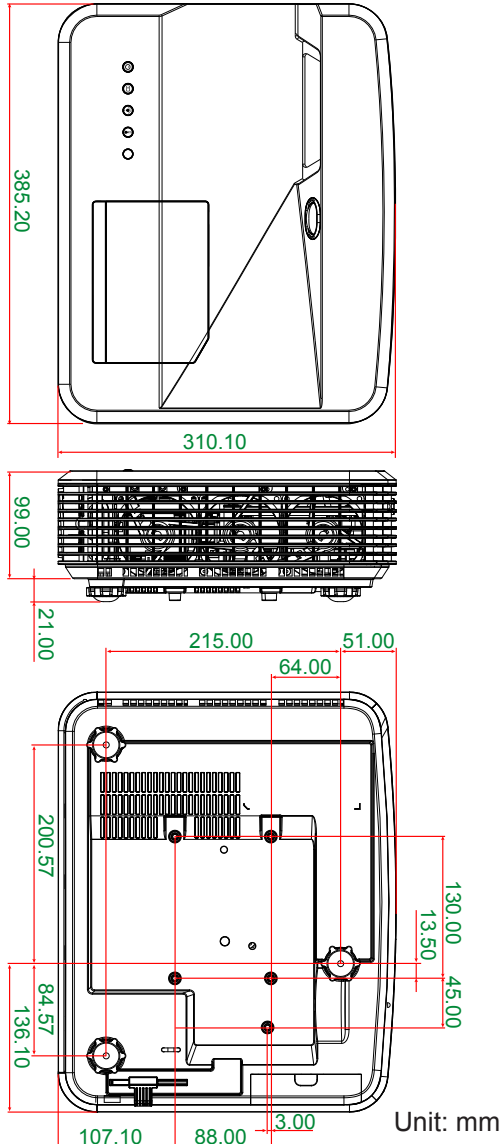
Pin no.	Spec. (from projector side)
1	N/A
2	RXD
3	TXD
4	N/A
5	GND
6	N/A
7	N/A
8	N/A
9	N/A

Projector Dimensions



⚠ Warning:

1. Please note that damage resulting from incorrect installation will void the warranty.
2. If you buy a ceiling mount from another company, please be sure to use the correct screw size. Screw size will vary depending on the thickness of the mounting plate.
 - ▶ Screw type: M4*3
 - ▶ Maximum screw length: 11mm
 - ▶ Minimum screw length: 8mm
3. Be sure to keep at least 10 cm gap between the ceiling and the bottom of the projector.
4. Avoid installing the projector near a heat source.






Optoma Global Offices

For service or support please contact your local office.




USA

3178 Laurelview Ct.
Fremont, CA 94538, USA
www.optomausa.com

 888-289-6786
 510-897-8601
 services@optoma.com




Canada

3178 Laurelview Ct.
Fremont, CA 94538, USA
www.optomausa.com

 888-289-6786
 510-897-8601
 services@optoma.com

Latin America

3178 Laurelview Ct.
Fremont, CA 94538, USA
www.optomausa.com

 888-289-6786
 510-897-8601
 services@optoma.com



Europe

42 Caxton Way, The Watford Business Park
Watford, Hertfordshire,
WD18 8QZ, UK
www.optoma.eu
Service Tel : +44 (0)1923 691865

 +44 (0) 1923 691 800
 +44 (0) 1923 691 888
 service@tsc-europe.com



Benelux BV

Randstad 22-123
1316 BW Almere
The Netherlands
www.optoma.nl

 +31 (0) 36 820 0252
 +31 (0) 36 548 9052



France

Bâtiment E
81-83 avenue Edouard Vaillant
92100 Boulogne Billancourt, France

 +33 1 41 46 12 20
 +33 1 41 46 94 35
 savoptoma@optoma.fr

Spain




C/ José Hierro,36 Of. 1C
28522 Rivas VaciaMadrid,
Spain

 +34 91 499 06 06
 +34 91 670 08 32

Appendices




Deutschland

Wiesenstrasse 21 W
D40549 Düsseldorf,
Germany

 +49 (0) 211 506 6670
 +49 (0) 211 506 66799
 info@optoma.de

Scandinavia



Lerpeveien 25
3040 Drammen
Norway

 +47 32 98 89 90
 +47 32 98 89 99
 info@optoma.no

PO.BOX 9515
3038 Drammen
Norway


Korea

WOOMI TECH.CO.,LTD.
4F,Minu Bldg.33-14, Kangnam-Ku,
seoul,135-815, KOREA

 +82+2+34430004
 +82+2+34430005




Japan

東京都足立区綾瀬3-25-18
株式会社オーエス
コンタクトセンター:0120-380-495

 info@os-worldwide.com
www.os-worldwide.com



Taiwan

12F., No.213, Sec. 3, Beixin Rd.,
Xindian Dist., New Taipei City 231,
Taiwan, R.O.C.
www.optoma.com.tw

 +886-2-8911-8600
 +886-2-8911-6550
 services@optoma.com.tw
asia.optoma.com



Hong Kong

Unit A, 27/F Dragon Centre,
79 Wing Hong Street,
Cheung Sha Wan,
Kowloon, Hong Kong

 +852-2396-8968
 +852-2370-1222
www.optoma.com.hk

China

5F, No. 1205, Kaixuan Rd.,
Changning District
Shanghai, 200052, China

 +86-21-62947376
 +86-21-62947375
www.optoma.com.cn

Regulation & Safety Notices

This appendix lists the general notices of your projector.

FCC Notice

This device 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 in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ❖ Reorient or relocate the receiving antenna.
- ❖ Increase the separation between the device and receiver.
- ❖ Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- ❖ Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.

Operation Conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

- EMC Directive 2014/30/EC (including amendments)
- Low Voltage Directive 2014/35/EC
- R & TTE Directive 1999/5/EC (if product has RF function)



Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

