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Table of Contents

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.

Precautions

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

▪ Warning- Do not look into the projector's lens when the lamp is on. The bright light may hurt and damage 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 53-54.

▪ 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 47).

▪ 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- Do not use lens cap when projector is in operation.

▪ Warning- When the lamp is approaching the end of its lifetime, the message "Lamp Warning: Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.

▪ Warning- Do not look into or point the laser pointer on your remote control into your or someone's eyes. Laser pointer can cause permanent damage to eyesight.

❖ 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 53-54.

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 - 35°C.

    ▶ Relative Humidity is 5 - 35°C, 80% (Max.), non-condensing.

- 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

■ XGA (1024x768) Native resolution

■ HD compatible – 1080p supported

■ VGA monitor loop through
(works on standby mode > 1W)

■ BrilliantColor™ Technology

■ Security Bar and Kensington Lock

■ RS232 control

■ Rapid shutdown

■ Built-in speaker

■ Network support (on specific models)

Package Overview

Unpack and inspect the box contents to ensure all parts listed below are in the box. If something is missing, please contact your nearest customer service center.
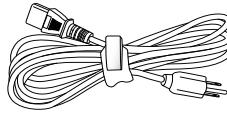
Power Cord 1.8m

VGA Cable 1.8m

Projector with lens cap
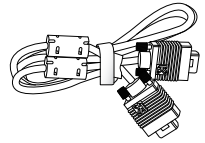
2 × AAA Batteries

IR Remote Control

Documentation :

☑ User's Manual

☑ Warranty Card

☑ Quick Start Card

☑ WEEE Card (for EMEA only)

Product Overview
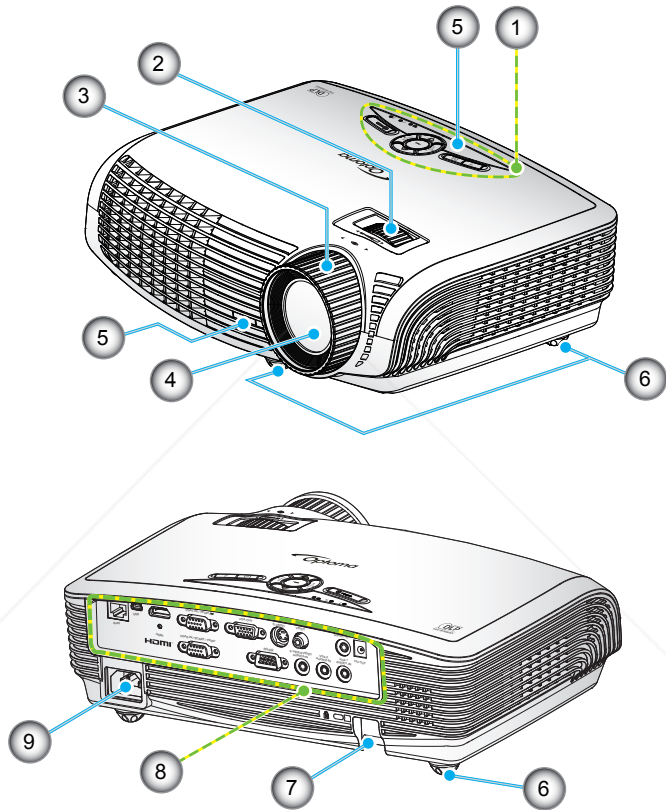
1. Control Panel
2. Zoom Ring
3. Focus Ring
4. Zoom Lens
5. IR Receivers
6. Tilt-Adjustment Feet
7. Security Bar
8. Input / Output Connections
9. Power Socket

Introduction

Control Panel
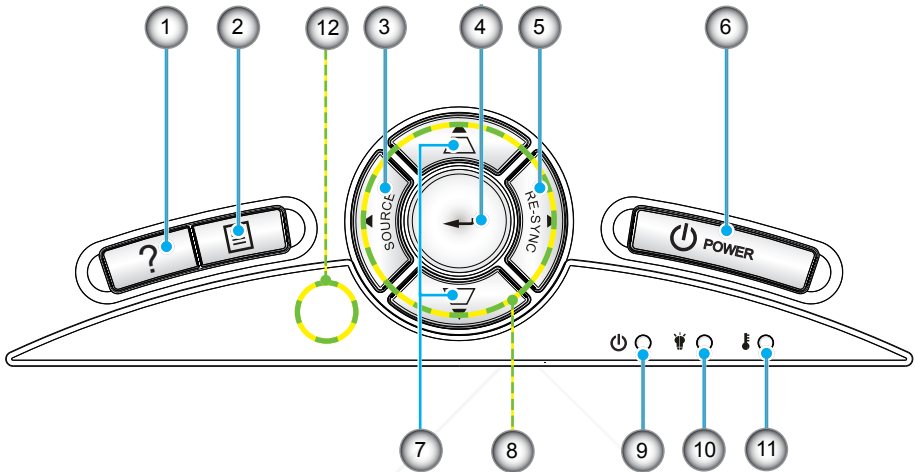
1. Help
2. Menu
3. Source
4. Enter
5. Re-Sync
6. Power
7. Keystone Correction
8. Four Directional Select Keys
9. On/Standby LED
10. Lamp Fail LED
11. Temp LED
12. IR Receiver

Input / Output Connections

VGA1-IN / YPbPr / ʸⁱ   VGA OUT   S-VIDEO   VIDEO   AUDIO-OUT

USB

RJ45   HDMI

VGA2-IN / SCART / YPbPr   RS232   S-VIDEO/VIDEO   VGA 2   VGA 1   12V OUT
                                                AUDIO3-IN   AUDIO2-IN AUDIO1-IN
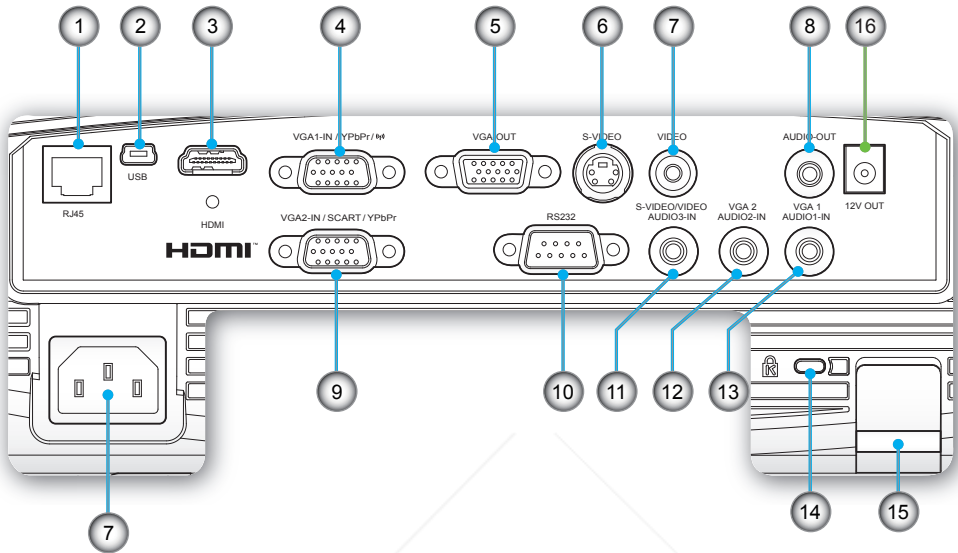
HDMI

1. RJ45 Networking Connector
2. USB Connector (Connect to PC for Remote Mouse function)
3. HDMI Connector
4. VGA1-In/YPbPr/"ʸⁱ" Connector
   (PC Analog Signal/Component Video Input/HDTV/YPbPr/
   Wireless Dongle)
5. VGA-Out Connector (Monitor Loop-through Output from
   VGA1-In)
6. S-Video Input Connector
7. Composite Video Input Connector
8. Audio Output Connector (3.5mm Mini Jack)
7. Power Socket
9. VGA2-In/SCART/YPbPr Connector
   (PC Analog Signal/Component Video Input/HDTV/SCART/
   YPbPr)
10. RS-232 Connector (9-pin)

Introduction
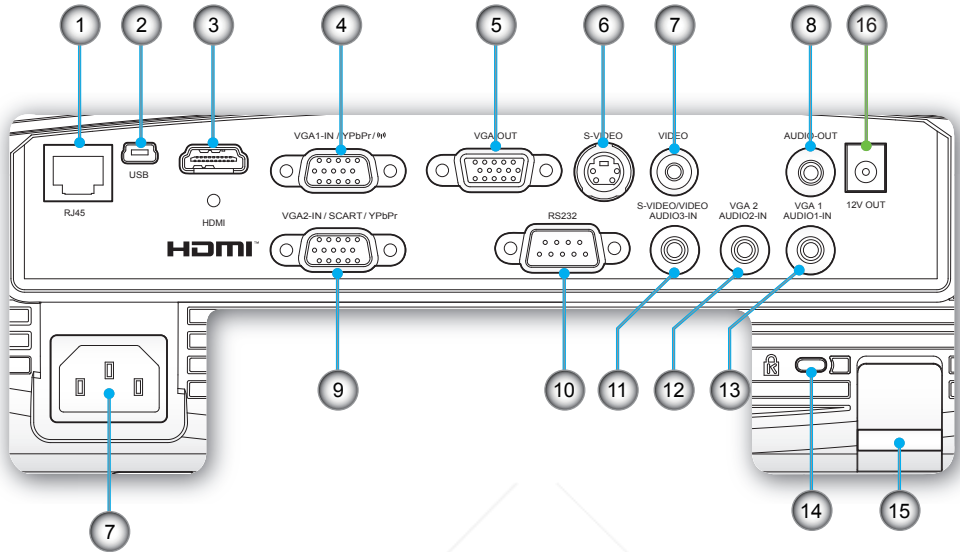
11. Audio 3 Input connector (3.5mm mini jack)
    (for S-video / Video)
12. Audio 2 Input connector (3.5mm mini jack)
    (for VGA 2)
13. Audio 1 Input connector (3.5mm mini jack)
    (for VGA 1)
14. Kensington™ Lock Port
15. Security Bar

The item below is only present on specific models.
16. 12V Trigger Relay Connector

Remote Control
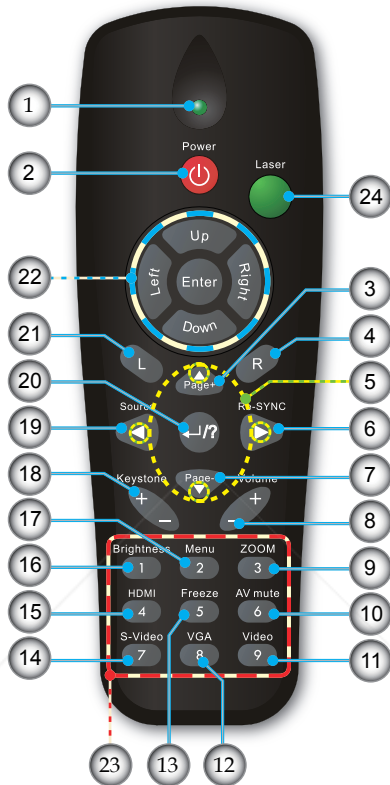
1. LED Indicator	13. Freeze
2. Power On/Off	14. S-Video
3. Page Up	15. HDMI
4. Mouse Right Click	16. Brightness
5. Four Directional	17. Menu
Select Keys	18. Keystone +/-
6. Re-Sync	19. Source
7. Page Down	20. Enter/Help
8. Volume +/-	21. Mouse Left Click
9. Zoom	22. PC/Mouse control
10. AV mute	23. Numbered keypad
11. Video	(for password input)
12. VGA	24. Laser Pointer

Connecting the Projector

Connect to Computer/Notebook
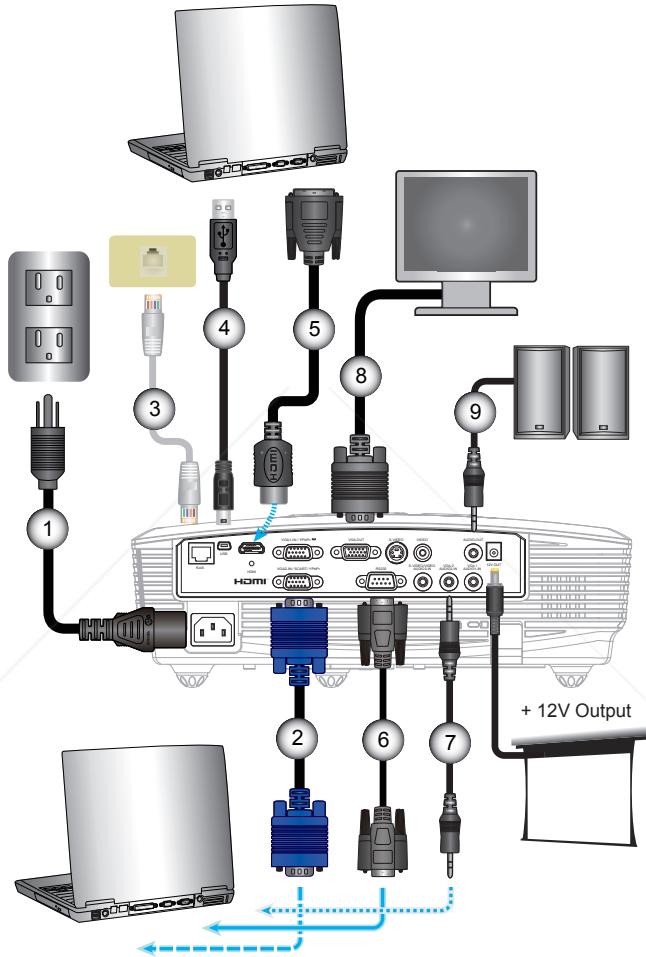
NOTE

❖ I/O configuration depends on models.

❖ Due to the difference in applications for each country, some regions may have different accessories.

❖ (*) Optional accessory

+ 12V Output

1...Power Cord
2..VGA Cable
3...*Network Cable
4..*USB Cable
5..*DVI/HDMI Cable
6...*RS232 Cable
7...*Audio Input Cable
8..*VGA Output Cable
9..*Audio Output Cable

Connect to Video Sources
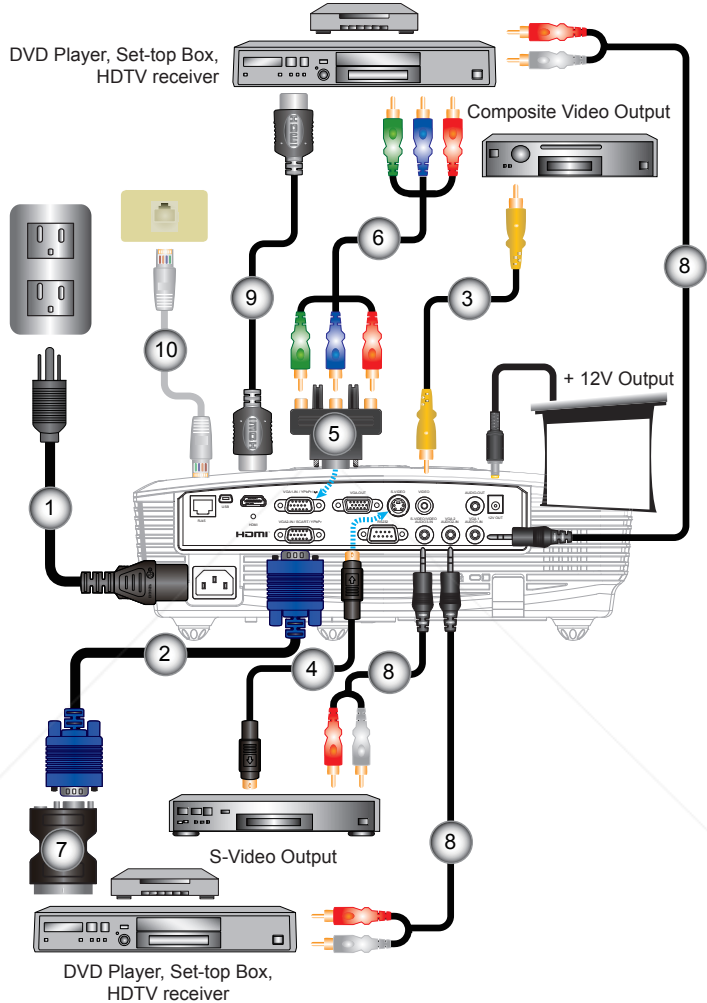
DVD Player, Set-top Box, HDTV receiver

Composite Video Output

+ 12V Output

S-Video Output

DVD Player, Set-top Box, HDTV receiver

Note

❖ I/O configuration depends on models

❖ Due to the difference in applications for each country, some regions may have different accessories.

❖ (*) Optional accessory

1...Power Cord
2..VGA Cable
3..*Composite Video Cable
4...*S-Video Cable
5.................................... *15-Pin to 3 RCA Component/HDTV Adaptor
6...*3 RCA Component Cable
7.. *SCART/VGA Adaptor
8.. *Audio Cable Jack/RCA
9...*HDMI Cable
10...*Network Cable

Installation

Powering On/Off the Projector

Powering On the Projector

1. Remove the lens cap. ❶

2. Securely connect the power cord and signal cable. When connected, the ON/STANDBY LED will turn Amber.

3. 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 Green. ❷

   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.(*)

4. 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 control panel or direct source keys on the remote control to switch between inputs.

> **NOTE**
>
> ❖ (*) When power saving mode is enabled, the VGA & Audio pass-through, RS-232 and RJ45 will be de-activated during standby mode.
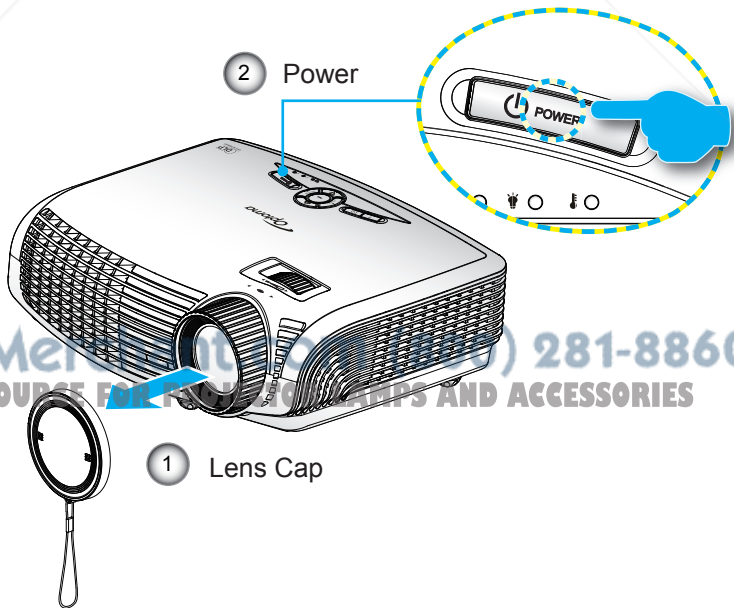
> **NOTE**
>
> ❖ Turn on the projector first and then select the signal sources.

2 Power

1 Lens Cap

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.

> Power Off?
> Press power key again.

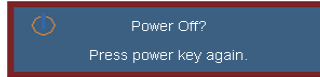Press the "⏻" button again to confirm otherwise the message will disappear after 15 seconds. When you press the "⏻" button for the second time, the projector will display countdown timer and will shut down.

2. The cooling fans continue to operate for about 10 seconds for cooling cycle and the ON/STANDBY LED will Flash Green. When the ON/STANDBY LED lights solid Amber, 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.

0

Please Wait!

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 amber.

❖ "TEMP" LED indicator is lit red and if "On/Standby" indicator flashes amber. 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 amber.

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.

NOTE

❖ Contact the nearest service center if the projector displays these symptoms. See pages 61-62 for more information.
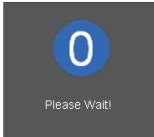
Adjusting the Projected Image

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 rings clockwise/anticlockwise to lower or raise the projector. Repeat with the remaining feet as needed.

Tilt-Adjustment Feet

Tilt-Adjustment Ring

Adjusting the Projector's Zoom / Focus

You may turn the zoom lever to zoom in or out. To focus the image, rotate the focus ring until the image is clear.

▶ 1.2x Zoom series will focus at distances from 4.92 to 32.81 feet (1.50 to 10.00 meters).

Zoom Ring

Focus Ring
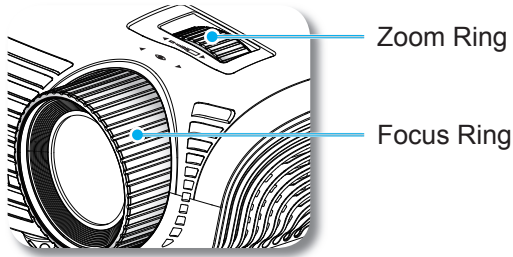
Adjusting Projection Image Size

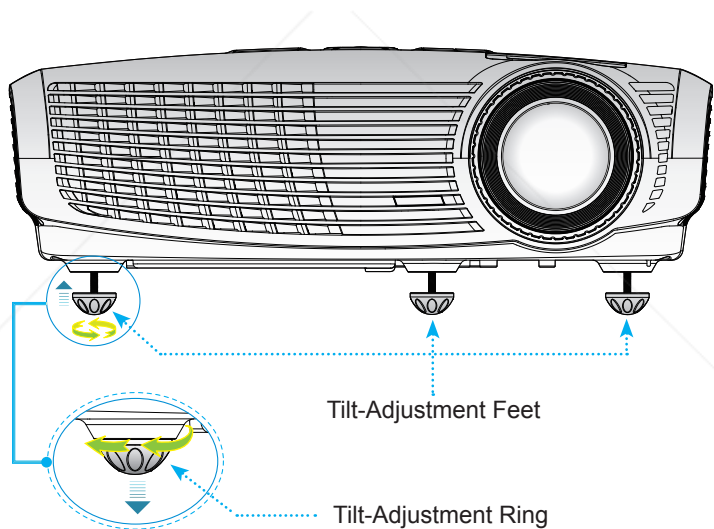| Screen (Diagonal)		46.1" (117.2cm)	76.9" (195.3cm)	100.0" (253.9cm)	153.8" (390.6cm)	246.1" (625.0cm)	307.6" (781.3cm)
	Max.	46.1" (117.2cm)	76.9" (195.3cm)	100.0" (253.9cm)	153.8" (390.6cm)	246.1" (625.0cm)	307.6" (781.3cm)
	Min.	38.4" (97.7cm)	64.1" (162.8cm)	83.3" (211.6cm)	128.2" (325.5cm)	205.1" (520.8cm)	256.3" (651.0cm)
Screen Size (WxH)	Max. (WxH)	36.9" x 27.7" 93.8 x 70.3cm	61.5" x 46.1" 156.3 x 117.2cm	80.0" x 60.0" 203.1 x 152.3cm	123.0" x 92.3" 312.5 x 234.4cm	196.9" x 147.6" 500.0 x 375.0cm	246.1" x 184.5" 625.0 x 468.8cm
	Min. (WxH)	30.8" x 23.1" 78.1 x 58.6cm	51.3" x 38.4" 130.2 x 97.7cm	66.6" x 50.0" 169.3 x 127.0cm	102.5" x 76.9" 260.4 x 195.3cm	164.0" x 123.0" 416.7 x 312.5cm	205.1" x 153.8" 520.8 x 390.6cm
Hd	Max.	4.15" (10.55cm)	6.92" (17.58cm)	9.00" (22.85cm)	13.84" (35.16cm)	22.15" (56.25cm)	27.68" (70.31cm)
	Min.	3.46" (8.79cm)	5.77" (14.65cm)	7.50" (19.04cm)	11.53" (29.3cm)	18.45" (46.88cm)	23.07" (58.59cm)
Distance		4.92' (1.50m)	8.20' (2.50m)	10.66' (3.25m)	16.40' (5.00m)	26.25' (8.00m)	32.81' (10.00m)

❖ This table is for user's reference only.

User Controls

Control Panel & Remote Control

Control Panel

Using the Control Panel

⏻	Power	Refer to the "Power On/Off the Projector" section on pages 14-15.
	RE-SYNC	Automatically synchronize the projector to the input source.
↵	Enter	Confirm your item selection.
	SOURCE	Press "SOURCE" to select an input signal.
▤	Menu	Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, Press "Menu" again.
?	HELP	Help Menu (refer to page 21).
	Four Directional Select Keys	Use ▲ ▼ ◀▶ to select items or make adjustments to your selection.
	Keystone	Use ⬭ ⬭ to adjust image distortion caused by tilting the projector. (±40 degrees)
☀○	Lamp LED	Indicate the projector's lamp status.
▮○	Temp LED	Indicate the projector's temperature status.
⏻○	ON/STANDBY LED	Indicate the projector's status.

User Controls

Remote Control

Using the Remote Control

Power	Refer to the "Power On/Off the Projector" section on pages 14-15.
Laser	Press to use laser pointer.
L Button	Mouse left click.
R Button	Mouse right click.
Page +	Use this button to page up.
Page -	Use this button to page down.
Enter/Help	↵ Confirm your item selection. ? Help Menu (refer to page 21).
Source	Press "Source" to select an input signal.
Re-SYNC	Automatically synchronizes the projector to the input source.
Four Directional Select Keys	Use ▲ ▼ ◄► to select items or make adjustments to your selection.
Keystone +/-	Adjust image distortion caused by tilting the projector.
Volume +/-	Adjust to increase / decrease the volume.
Brightness	Adjust the brightness of the image.
Menu	Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, press "Menu" again.
ZOOM	Zoom in on an image. Press ◄► buttons to alter zoom.

CAUTION
Max output<1mW
Wavelength 650nm
LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
This product is complied
With 21 CFR part 1002.10
EN 60825-1:1994+A2+A1
LASER MODULE:M-5.2-6.5x12-6x6
LASER RADIATION

IEC 60825-1:1994+A1+A2
Rating: ⎓ DC 3V 60mA MAX
BONTECH ELECTRONICS
CO.,LTD.
Model No:L-27-6KEY

MADE IN CHINA

19 English

User Controls

Remote Control

Using the Remote Control

HDMI	Press "HDMI" to choose HDMI source.
Freeze	Press "Freeze" to pause the screen image. Press this button again to unlock.
AV mute	Momentarily turns off/on the audio and video.
S-Video	Press "S-Video" to choose S-Video source.
VGA	Press "VGA" to choose VGA sources.
Video	Press "Video" to choose Composite video source.
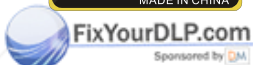
CAUTION
Max output<1mW
Wavelength 650nm
LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
This product is complied
With 21 CFR part 1002.10
EN 60825-1:1994+A2+A1
LASER MODULE:M-5.2-6.5x12-6x6
LASER RADIATION

IEC 60825-1:1994+A1+A2
Rating: === DC 3V 60mA MAX
BONTECH ELECTRONICS
CO.,LTD.
Model No:L-27-6KEY

MADE IN CHINA

Using the HELP button

The HELP function ensures easy setup and operation.
  ▶ Press the "?" button on the control panel to open the Help Menu.
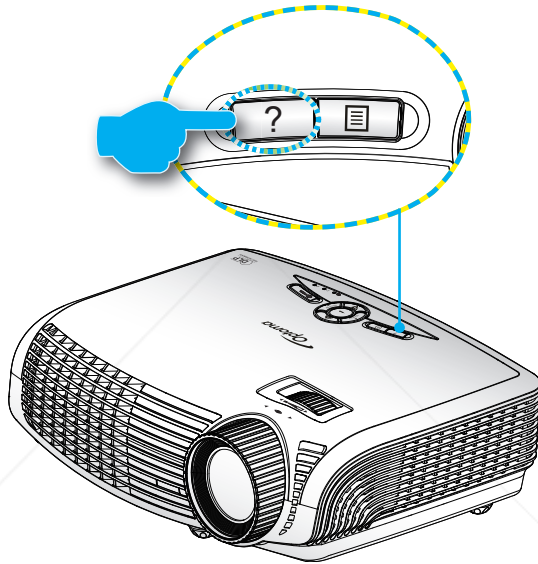
User Controls

▶ Help menu button functions only when no input source is detected.

HELP
❓ No Image appears on-screen.
⬍ UpDown   ↵ Select   Menu Exit

No Image appears on-screen.
▶ Ensure all the cables and power connections are correctly and securely connected as described in the Installation section of User's Manual.
▶ Ensure all the pins of connectors are not bent or broken.
▶ Ensure that the [AV MUTE] feature is not turned on.
[NEXT]   ⬐ [Exit]
⬍ UpDown   ↵ Select   Menu Exit

No Image appears on-screen.
▶ If you are using a Notebook :
1. First, follow the steps above to adjust resolution of the computer.
▶ 2. Press the toggle output settings. Example : [Fn]+[F4]

Acer ▷	[Fn]+[F5]	IBM/Lenovo ▷ [Fn]+[F7]
Asus ▷	[Fn]+[F8]	HP/Compaq ▷ [Fn]+[F4]
Dell ▷	[Fn]+[F8]	NEC ▷ [Fn]+[F3]
Gateway ▷	[Fn]+[F4]	Toshiba ▷ [Fn]+[F5]

Mac Apple :
System Preference ▷ Display ▷ Arrangement ▷ Mirror display

[PREV]   ⬐ [Exit]

⬍ UpDown   ↵ Select   Menu Exit

NOTE

❖ Please refer to the "Troubleshooting" section on pages 48-51 for more details.
.

▶ If input source is detected and help button is pressed, the following pages will appear to help diagnose any problems.

HELP
❓ Image has slanted sides.
❓ Image is too small or too large.
❓ Image is unstable or flickering.
❓ There is no audio heard or the volume is too low.
⬍ UpDown   ↵ Select   Menu Exit

Image has slanted sides.

▶ If possible, reposition the projector so that is centered on the screen and below the bottom of the screen.

▶ Press [KEYSTONE + / -] button until the sides are vertical on the remote control.

[KEYSTONE + / -]

⬅ [Exit]

⬍ UpDown   ↵ Select   Menu Exit

Image is too small or too large.

▶ Adjust the Zoom Ring on the top of projector.

▶ Move the projector closer to or further from the screen.

▶ Press [MENU] button on the remote control or projector panel, go to "DISPLAY | Format" and try the different settings.

[DISPLAY | Format]

⬅ [Exit]

⬍ UpDown   ↵ Select   Menu Exit

There is no audio heard or the volume is too low.

? Is the volume setting at the minimum?

▶ Turn up the volume setting.

? Is the cable connected properly to the projector?

▶ Check the physical connection and ensure the cable is connected properly from the source to projector.

[Volume]

⬅ [Exit]

⬍ UpDown   ↵ Select   Menu Exit

Image is unstable or flickering.

▶ Use [Phase / Frequency] to correct it.

▶ Change the monitor color setting on your computer.

[Phase]

[Frequency]

⬅ [Exit]

⬍ UpDown   ↵ Select   Menu Exit

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 Projector Keypad.

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 and adjust the settings using ◄► key.

4. Select the next item to be adjusted in the sub menu and adjust as described above.

5. Press "Enter" 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.

Main Menu

Sub Menu

Settings

IMAGE   DISPLAY   SETUP   OPTIONS

IMAGE

Display Mode   Presentation
Brightness   50
Contrast   50
Sharpness   15
Saturation   50
Tint   50
Advanced

UpDown   Select   Exit
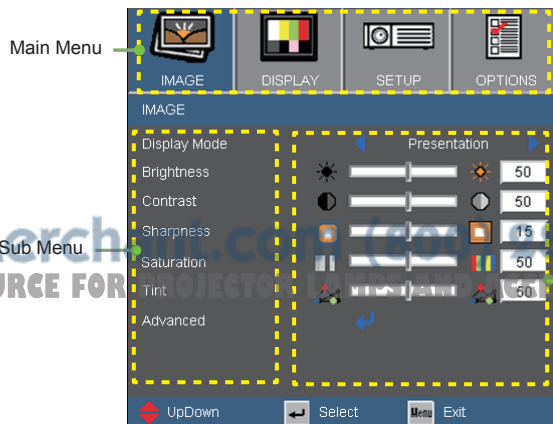
Menu Tree

❖ (#) "Saturation" and "Tint" are only supported in Video mode.

❖ (✶) "Signal" is only supported in Analog VGA (RGB) signal.

❖ The item below is only present on specific models.

(☆) "Closed Captioning"

IMAGE

Display Mode	Presentation/Bright/Movie/sRGB/Blackboard/Classroom/User1/User2
Brightness	
Contrast	
Sharpness	
# Saturation	
# Tint	
Advanced	

IMAGE | ADVANCED

Degamma	Film/Video/Graphics/PC
BrilliantColor™	
Color Temp.	Warm/Medium/Cold
Color Settings	
Color Space	AUTO/RGB/YUV
Input Source	VGA1/VGA2/S-Video/Video/HDMI

IMAGE | ADVANCED | COLOR SETTINGS

Red Gain	
Green Gain	
Blue Gain	
Red Bias	
Green Bias	
Blue Bias	
Cyan	
Magenta	
Yellow	
Reset	Yes/No

DISPLAY

Format	4:3/16:9-I/16:9-II/Native/AUTO
Overscan	
Zoom	
H Image Shift	
V Image Shift	
V Keystone	

SETUP

Language	English/Deutsch/Français/Italiano/Español/Português/Polski/Nederlands/Русский/Suomi/Svenska/Norsk/Dansk/ελληνικά/Magyar/Čeština/Türkçe/简体中文/繁體中文/日本語/한국어/ไทย/عربی/فارسی
Projection	
Menu Location	
✶ Signal	
Security	
Projector ID	
Mute	On/Off
Volume	
Audio Input	Default/AUDIO1/AUDIO2/AUDIO3
Advanced	
RS232	RS232/Network
Network	
Wireless	On/Off

SETUP | SIGNAL

Phase	
Frequency	
H. Position	
V. Position	

SETUP | SECURITY

Security	On/Off
Security Timer	
Change Password	

SETUP | ADVANCED

Logo	OPTOMA/User
Logo Capture	
☆ Closed Captioning	Off/CC1/CC2

SETUP | NETWORK

Network Status	
DHCP	
IP Address	
Subnet mask	
Gateway	
DNS	
Apply	Yes/No

Menu Tree

OPTIONS		
Source Lock	On/Off
High Altitude	On/Off
Information Hide	On/Off
Keypad Lock	On/Off
Background Color	Back/Red/Blue/Green/White
Advanced	
Lamp Settings	
Reset	Yes/No

OPTIONS	ADVANCED		
Direct Power On	On/Off
Auto Power Off (min)	
Sleep Timer (min)	
Power Mode (Standby)	Active/Eco.

OPTIONS	LAMP SETTINGS		
Lamp Hours	
Lamp Reminder	On/Off
Brightness Mode	STD/BRIGHT
Lamp Reset	Yes/No

IMAGE

Display Mode

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

▶ Presentation: Good color and brightness from PC input.

▶ Bright: Maximum brightness from PC input.

▶ Movie: For home theater.

▶ sRGB: Standardised accurate color.

▶ Blackboard: This mode should be selected to achieve optimum color settings when projecting onto a blackboard (green).

▶ Classroom: This mode is recommended for projecting in a classroom.

▶ User1: User's settings.

▶ User2: The initial default settings of this mode is from Movie mode. Any further adjustments by the user in User2 will be saved in this mode for future use.

Brightness

Adjust the brightness of the image.

▶ Press the ◀ to darken image.

▶ Press the ▶ to lighten the image.
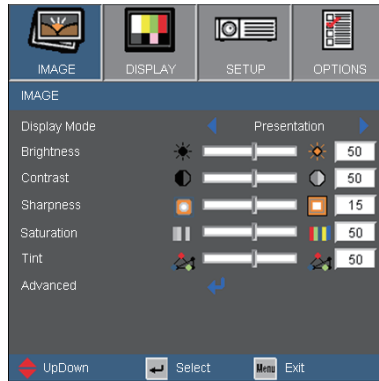
IMAGE

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.

Saturation

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.

❖ "Saturation" and "Tint" functions are only supported under Video mode.

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.

IMAGE | Advanced
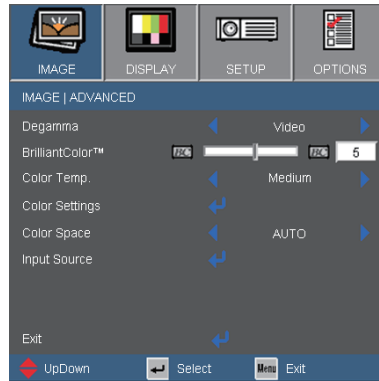
Degamma

This allows you to choose a degamma table that has been fine-tuned to bring out the best image quality for the input.

▸ Film: for home theater.

▸ Video: for video or TV source.

▸ Graphics: for image source.

▸ PC: for PC or computer source.

BrilliantColor™

This adjustable item utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing true, more vibrant colors in picture. The range is from "0" to "10". If you prefer a stronger enhanced image, adjust toward the maximum setting. For a smoother, more natural image, adjust toward the minimum setting.

Color Temp

Adjust the color temperature. With cold temperature, the screen looks colder; with warm temperature, the screen looks warmer.

Color Space

Select an appropriate color matrix type from AUTO, RGB or YUV.

IMAGE | ADVANCED | COLOR SETTINGS

	MIN		MAX	
Red Gain	MIN		MAX	0
Green Gain	MIN		MAX	0
Blue Gain	MIN		MAX	0
Red Bias	MIN		MAX	0
Green Bias	MIN		MAX	0
Blue Bias	MIN		MAX	0
Cyan	MIN		MAX	0
Magenta	MIN		MAX	0
Yellow	MIN		MAX	0
Reset		↵		
Exit		↵		
◆ UpDown	↵ Select		Menu Exit	

Advanced | Color Setting

Color

Use these settings for advanced adjustment of the individual Red, Green, Blue, Cyan, Magenta and Yellow Colors.

Reset

Choose "Yes" to return the factory default settings for color adjustments.

IMAGE | ADVANCED | INPUT SOURCE

VGA1	☑
VGA2	☑
S-Video	☑
Video	☑
HDMI	☑
Exit	↵
◆ UpDown	↵ Select Menu Exit

Advanced | Input Source
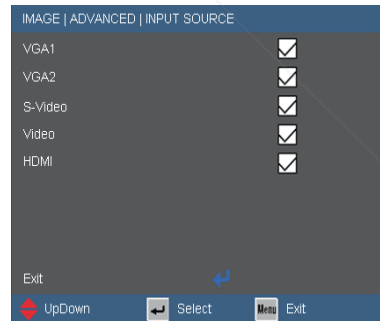
Input Source

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 not search for inputs that are not selected.

DISPLAY

IMAGE	DISPLAY	SETUP	OPTIONS

DISPLAY

Format	◀ 4:3 ▶
Overscan	2
Zoom	10
H Image Shift	0
V Image Shift	0
V Keystone	0

◆ UpDown ↵ Select Menu Exit
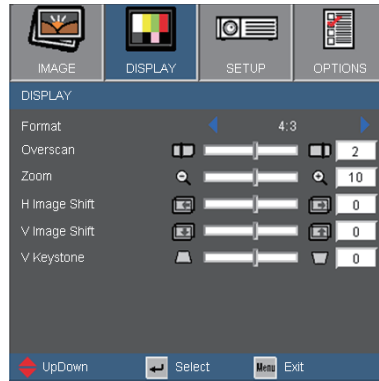
Format

Use this function to choose your desired aspect ratio.

▸ 4:3: This format is for 4×3 input sources.

▸ 16:9-I: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV. (576i/p)

▸ 16:9-II: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV. (480i/p)

▸ Native: This format displays the original image without any scaling.

▸ AUTO: Automatically selects the appropriate display format.

Aspect ratio (source detected)	Resize image
	XGA model
4:3	1024 x 768 center
16:9-I	1024 x 576 center
16:9-II	854 x 480 center
Native	Resize image of native change to above description not pixels resolution.
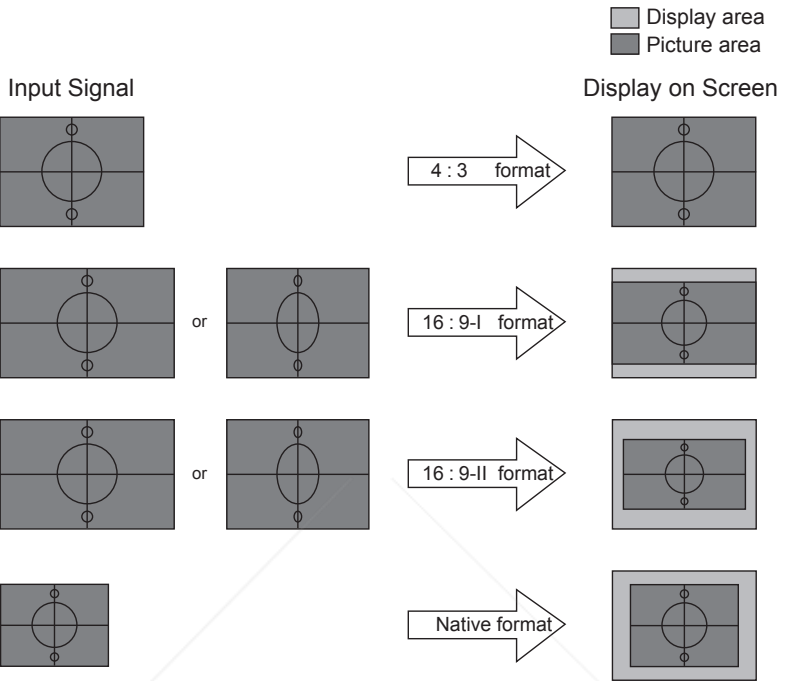
Display area
Picture area

Input Signal   Display on Screen

4 : 3   format

16 : 9-I   format

16 : 9-II format

Native format

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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

DISPLAY

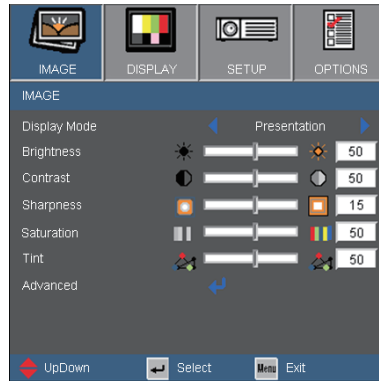| IMAGE	DISPLAY	SETUP	OPTIONS

DISPLAY

Format	◀ 4:3 ▶
Overscan	2
Zoom	10
H Image Shift	0
V Image Shift	0
V Keystone	0

◆ UpDown	↵ Select	Menu Exit
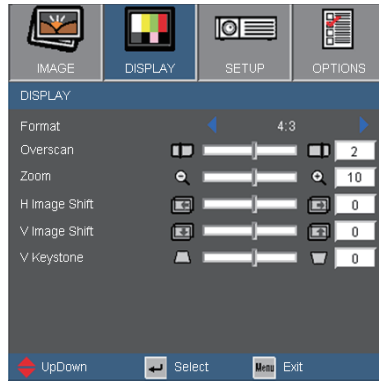
Overscan

Overscan function removes the noise in a video image. Overscan the image to remove video encoding noise on the edge of video source.

Zoom

▶ Press the ◀ to reduce the size of an image.

▶ Press the ▶ to magnify an image on the projection screen.

H Image Shift

Shift the projected image position horizontally.

V Image Shift

Shift the projected image position vertically.

V Keystone

Press the ◀ or ▶ to adjust image distortion vertically. If the image looks trapezoidal, this option can help make the image rectangular.

SETUP | Language

IMAGE	DISPLAY	SETUP	OPTIONS

SETUP | LANGUAGE

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

◆ UpDown	↵ Select	Menu Exit

Language

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

SETUP

Projection

▶ **Front-Desktop**

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.

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

SETUP

Menu Location

Choose the menu location on the display screen.

Projector ID

ID definition can be set up by menu (range 0~99), and allow user control an individual projector by RS232. Refer to page 58 for the complete list of RS232 commands.

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.

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, 2 or 3) to the current image source. Each Audio input can be assigned to more than one video source.

AUDIO1: VGA1
AUDIO2: VGA2
▶ AUDIO3: S-VIDEO / VIDEO

SETUP | Signal

IMAGE	DISPLAY	SETUP	OPTIONS	

SETUP | SIGNAL

Phase		15
Frequency		0
H. Position		0
V. Position		0

Exit ↵

🔺 UpDown ↵ Select Menu Exit
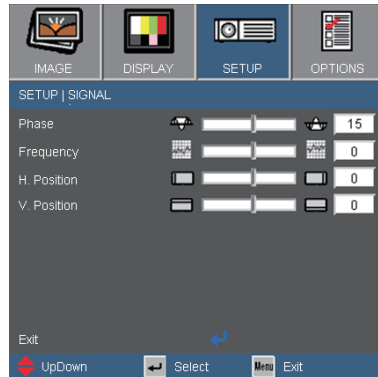
Phase

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.

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.

H. Position

▶ Press the ◀ to move the image left.

▶ Press the ▶ to move the image right.

V. Position

▶ Press the ◀ to move the image down.

▶ Press the ▶ to move the image up.

SETUP | Security

SETUP | SECURITY

Security	◄ On ►
Security Timer	↵
Change Password	↵
Exit	↵

UpDown | ↵ Select | Menu Exit

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.

Security Timer

Timer-Month	JAN ▐ DEC	6
Timer-Day	01 ▐ 30	15
Timer-Hour	🕐 ▐ 🕐	12
Exit		↵

SETUP | Security

SETUP | SECURITY

Security ◄ On ►
Security Timer ↵
Change Password ↵

Exit ↵

UpDown ↵ Select Menu Exit

NOTE

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

Change Password

▶ First time:

1. Press "↵" to set the password.

2. The password has to be 4 digits.

3. Use number button on the remote to enter your new password and then press "↵" key to confirm your password.

▶ Change Password:

1. Press "↵" to input old password.

2. Use number button to enter current password and then press "↵" to confirm.

3. Enter new password (4 digits in length) using the number buttons on the remote, then press "↵" to confirm.

4. Enter new password again and press "↵" 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.
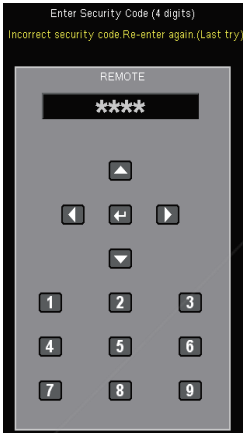
SETUP
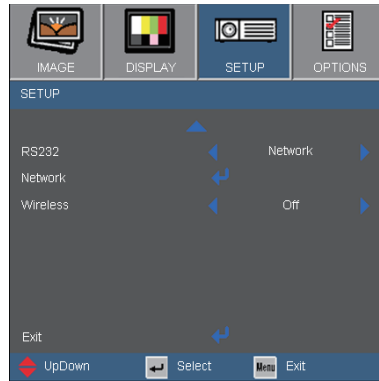
RS232

▶ RS232: Allow RS232 control of an individual projector. (Default setting)

▶ Network: Allow projector control via web browser (Internet Explorer) using the network.

Wireless

Choose the "On" to turn on the Wireless.
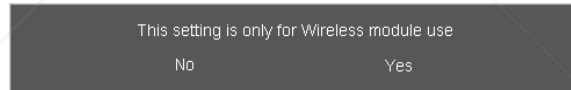
This setting is only for Wireless module use

No   Yes

❖ "Wireless" is only functional with VGA1 connector

⚠ Warning: Wired VGA will not function and the projector maybe shut down if Wireless is turned on.

SETUP | Advanced

IMAGE   DISPLAY   SETUP   OPTIONS

SETUP | ADVANCED

Logo	◄	OPTOMA	►
Logo Capture		↵	
Closed Captioning	◄	Off	►

Exit ↵

🔺 UpDown   ↵ Select   Menu Exit
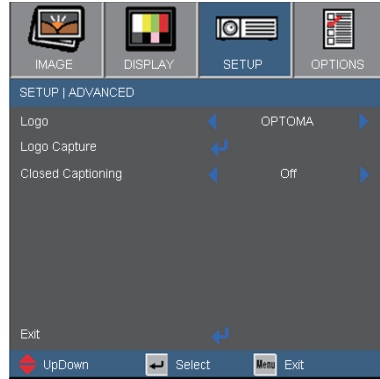
Logo

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.

▸ OPTOMA: The default startup screen.

▸ User: Use memorize picture from "Logo Capture" function.

Logo Capture

Press "↵" to immediately capture an image of the picture currently displayed on screen.

Logo Capture
Processing...

Closed Captioning

▸ Off: select "off" to turn off the closed captioning feature.

▸ CC1: CC1 language: American English.

▸ CC2: CC2 language (depending on the TV channel of the user): Spanish, French, Portuguese, German, Danish.

NOTE
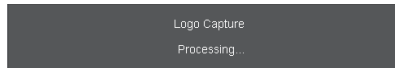
❖ "Closed Captioning": on specific models

SETUP | Network
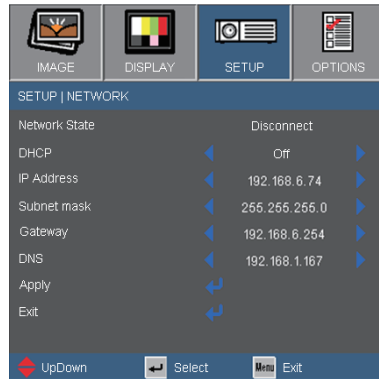
Network State

Display the network connection status.

DHCP

Use this function to select your desired startup screen. If you change the setting from one to another, when you exit the OSD menu, the new setting will take effect on next open.

▶ On: Assign an IP address to the projector from an external DHCP server automatically.

▶ Off: Assign an IP address manually.

IP Address

Select an IP address.

Subnet Mask

Select subnet mask number.

Gateway

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

DNS

Select DNS number.

Apply

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

How to use web browser to control your projector

1. Turn on DHCP to allow the DHCP server to automatically assign an IP, or manually enter the required network information.

SETUP	NETWORK	
Network State		Disconnect
DHCP	◄	Off ►
IP Address	◄	192.168.6.74 ►
Subnet mask	◄	255.255.255.0 ►
Gateway	◄	192.168.6.254 ►
DNS	◄	192.168.1.167 ►
Apply		↵
Exit		↵
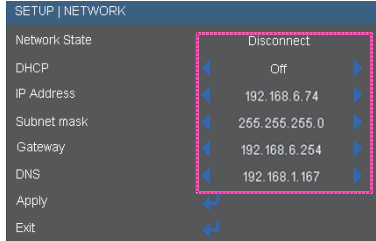
2. Then choose apply and press "↵" button to complete the configuration process.
3. Open your web browser and type in from the OSD LAN screen then the web page will display as below:

| Home | Control Panel | Network Setting | Alert Setting | Logout |

Welcome to Optoma Projector Web Server

IP:192.168.6.74

Projector Status

Model Name: EX.
System Status: Power ON
Display Source: None
Lamp Hours: 0000
Display Mode: None
Error Status: Normal
FW Version: A006

4. Open "Control Panel" to control your projector.

| Home | Control Panel | Network Setting | Alert Setting | Logout |

Control Panel

Power ON	Power OFF
Resync	Reset
Next Source	Logo Capture
AV Mute	OFF
Freeze	OFF
Bright Mode	Bright
Information Hide	OFF
High Altitude	OFF
Keypad Lock	OFF
Direct Power On	OFF
Power Mode	Active

Image
Source: VGA1
Brightness: 5
Contrast: 5
Sharpness: 5
Phase: 9
BrilliantColor: 6
Degamma: Film
Color Temp: Warm
Display Mode: None
Color Space: RGB

Audio
Volume: 0
Managment
Display Format: Auto
Projection: Front
Zoom Value: 0
V.Keystone: 0
V.Image Shift: 0
Auto Power OFF: 3
Sleep Timer: 0
Project ID: 0
Background Color: Black
Logo: Optoma

When making a direct connection from your computer to the projector

Step 1: Find an IP Address (192.168.6.74) from LAN function of projector.

| IP Address | ◄ | 192.168.6.74 ► |

Step 2: Select apply and press "Enter" button to submit function or press "menu" key to exit.

Step 3: To open Network Connections, click **Start**, click **Control Panel**, click **Network and Internet Connections**, and then click **Network Connections**. Click the connection you want to configure, and then, under **Network Tasks** , click **Change settings of this connection**.

Step 4: On the **General** tab, under **This connection uses the following items**, click **Internet Protocol (TCP/IP)**, and then click "Properties."
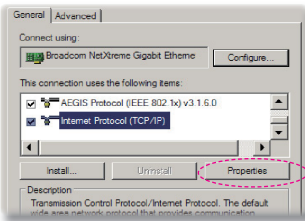
Step 5: Click **Use the following IP address**, and type in as below:
1) IP address: 192.168.6.XXX
2) Subnet mask: 255.255.0.0
3) Default gateway:192.168.6.254
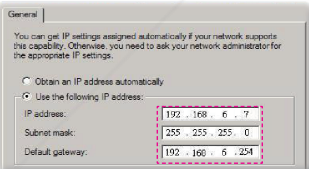
Step 6: To open Internet Options, click IE web browser, click Internet Options, click the **Connections tab** and click "LAN Settings..."
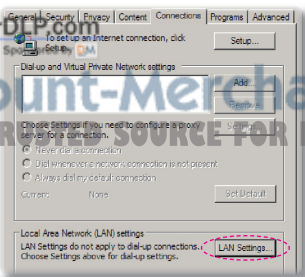
Step 7: The **Local Area Network (LAN) Setting** dialog box appears**,** In the **Proxy Server area**, cancel the **Use a proxy server for your LAN check box**., then click "OK" button twice.
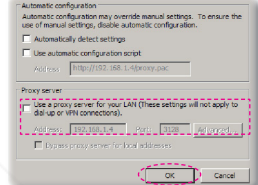
Step 8: Open your IE and type in the IP address of 192.168.6.74 in the URL then press "Enter" key. The web page will display as below:
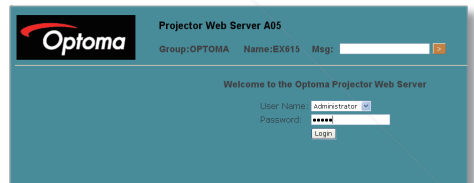
Step 9: Open "Control Panel" to control your projector.

OPTIONS

IMAGE	DISPLAY	SETUP	OPTIONS

OPTIONS

Source Lock	◄ On ►
High Altitude	◄ On ►
Information Hide	◄ On ►
Keypad Lock	◄ On ►
Background Color	◄ Blue ►
Advanced	↵
Lamp Settings	↵
Reset	↵

UpDown | Select | Menu Exit
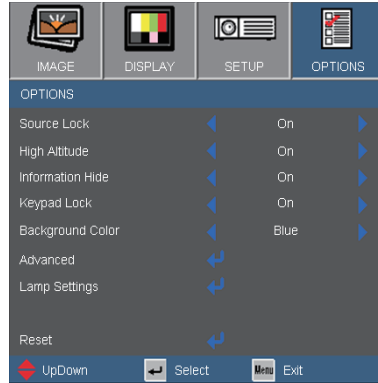
Source Lock

▶ 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.

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 control panel will be locked however, the projector can be operated by the remote control. By selecting "Off", you will be able to reuse the control panel.

Background Color

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

Reset

Choose "Yes" to return the display parameters on all menus to the factory default settings.

NOTE

❖ To turn off the keypad lock, press and hold "Enter" key on top of the projector for 5 seconds.

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OPTIONS | Advanced

OPTIONS | ADVANCED

Direct Power On .... On
Auto Power Off (min) 90
Sleep Timer (min) 500
Power Mode (Standby) ...... Active

Exit

UpDown   Select   Menu Exit
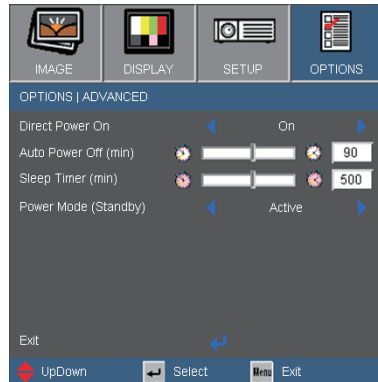
Direct Power On

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.

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).

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).

Power Mode (Standby)

▶ Eco.: Choose "Eco." to save power dissipation further < 1W.
▶ Active: Choose "Active" to return to normal standby and the VGA out port will be enabled.

NOTE

❖ This disables VGA out and RJ45 control when the projector is in Power Mode (Standby) as Eco..

OPTIONS | Lamp Settings

OPTIONS | LAMP SETTINGS

Lamp Hours   1500
Lamp Reminder   ◄   Off   ►
Brightness Mode   ◄   STD   ►
Lamp Reset   ↵

Exit   ↵

UpDown   ↵ Select   Menu Exit
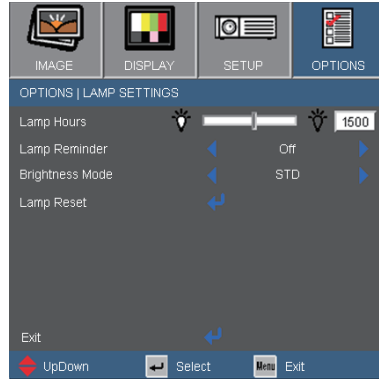
__Lamp Hours__

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__

▸ STD: Choose "STD" to dim the projector lamp which will lower power consumption and extend the lamp life.
▸ BRIGHT: Choose "BRIGHT" to increase the brightness.

__Lamp Reset__

Reset the lamp hour counter after replacing the lamp.

❖ When ambient temperature is over 35°C in operating, the projector will switch to STD automatically.

Appendices

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.

? No image appears on-screen

▸ Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.

▸ Ensure all the pins of connectors are not bent or broken.

▸ Check if the projection lamp has been securely installed. Please refer to the "Replacing the lamp" section.

▸ Make sure you have removed the lens cap and the projector is switched on.

▸ Ensure that the "AV mute" feature is not turned on.

? Partial, scrolling or incorrectly displayed image

▸ Press "Re-SYNC" on the remote.

▸ If you are using a PC:

For Windows 95, 98, 2000, XP:

1. Open the "My Computer" icon, the "Control Panel" folder, and then double click on the "Display" icon.

2. Select the "Settings" tab.

3. Verify that your display resolution setting is lower than or equal to UXGA (1600 × 1200).

4. Click on the "Advanced Properties" button.

If the projector is still not projecting the whole image, you will also need to change the monitor display you are using. Refer to the following steps.

5. Verify the resolution setting is lower than or equal to UXGA (1600 × 1200).

6. Select the "Change" button under the "Monitor" tab.

7. Click on "Show all devices". Next, select "Standard monitor types" under the SP box; choose the resolution mode you need under the "Models" box.

8. Verify that the resolution setting of the monitor display is lower than or equal to UXGA (1600 × 1200).

▸ If you are using a Notebook:

1. First, follow the steps above to adjust resolution of the computer.

2. Press the appropriate keys listed below for your notebook manufacturer to send signal out from notebook to projector. Example: [Fn]+[F4]

Acer ⇨	[Fn]+[F5]	IBM/Lenovo ⇨	[Fn]+[F7]
Asus ⇨	[Fn]+[F8]	HP/Compaq ⇨	[Fn]+[F4]
Dell ⇨	[Fn]+[F8]	NEC ⇨	[Fn]+[F3]
Gateway ⇨	[Fn]+[F4]	Toshiba ⇨	[Fn]+[F5]

Mac Apple:
System Preference ⇨ Display ⇨ Arrangement ⇨ Mirror display

▸ If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.

[?] The screen of the Notebook or PowerBook computer is not displaying your presentation

▸ If you are using a Notebook PC
Some Notebook PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer's manual for detailed information.

[?] Image is unstable or flickering

▸ Use "Phase" to correct it. See page 37 for more information.
▸ Change the monitor color setting on your computer.

[?] Image has vertical flickering bar

▸ Use "Frequency" to make an adjustment. See page 37 for more information.
▸ Check and reconfigure the display mode of your graphic card to make it compatible with the projector.

? Image is out of focus

▶ Make sure the lens cap is removed.

▶ Adjust the Focus Ring on the projector lens.

▶ Make sure the projection screen is between the required distance. See page 17.

? 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 when the projector display mode is set to 16:9 in the OSD.

▶ If you play 4:3 format DVD titles, please change the format to 4:3 in the 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

▶ Adjust the Zoom Ring on the top of the projector.

▶ Move the projector closer to or further from the screen.

▶ Press "Menu" button on the remote control or projector panel, go to "Display → Format" and try the different settings.

? Image has slanted sides

▶ If possible, reposition the projector so that it is horizontally centered on the screen and below the bottom of the screen.

▶ Press "Keystone +/-" button on the remote control or press "⬜ / ⬜" on the projector panel, until the sides are vertical.

NOTE

Use of Keystone is not recommended.

? Image is reversed

▶ Select "SETUP → Projection" from the OSD and adjust the projection direction.

Appendices

? The projector stops responding to all controls

▸ If possible, turn off the projector, then unplug the power cord and wait at least 60 seconds before reconnecting power.
▸ Check that "Keypad Lock" is not activated by trying to control the projector with the remote control.

? 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 on pages 53-54.

Projector Status Indication

? LED lighting message

Message	ON/STANDBY LED	Temp-LED	Lamp-LED
	(Green/Amber)	(Red)	(Red)
Standby State (Input power cord)	Amber	◯	◯
Power on (Warming)	Flashing Green	◯	◯
Lamp lighting	Green	◯	◯
Power off (Cooling)	Flashing Green	◯	◯
Error (Over Temp.)	Flashing Amber	☀	◯
Error (Fan fail)	Flashing Amber	Flashing	◯
Error (Lamp fail)	Flashing Amber	◯	☀

✴ ON/STANDBY LED be ON when OSD appears, be OFF when OSD disappears.

Steady light ⇨ ☀
No light ⇨ ◯

51 English

? On Screen Messages

▶ Temperature warning:


```
Warning: TEMPERATURE TOO HIGH

Please:

1. Make sure air in and outlets are not blocked

2.Make sure the environment temperature is under 40 degree C


If the problem persists despite the above,

Please contact a service centre for repair
```

▶ Fan failed:


```
Warning: FAN LOCKED

The projector will switch off automatically

Please contact a service centre for repair
```

▶ Lamp warming:


```
⚠  Lamp Warning
   Lamp life exceeded.
```

▶ Out of display range:


```
        VGA1
    Out of display range.
```
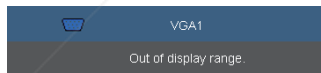
Remote Control

? If the remote control does not work

▶ Check the operating angle of the remote control is within ±15° 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 7 m (±0°) of the projector.

▶ Make sure the batteries are inserted correctly.

▶ Replace batteries if they are exhausted.

Appendices

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.

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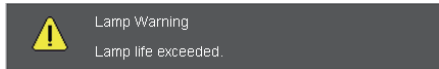
When you see this message, please contact your local reseller or service center to change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.

> ⚠ ⚠ ⚠ **CAUTION!**
> HIGH PRESSURE LAMP MAY EXPLODE IF IMPROPERLY HANDED. REFER TO LAMP REPLACEMENT INSTRUCTIONS.
> ATTENTION:
> Les lampes à haute pression peuveñt exploser si elles sont mal utilisées.
> Confier l'entretien à une personne qualifiée.
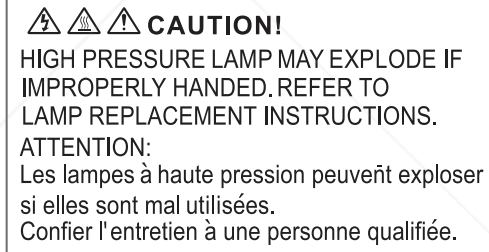
⚠ Warning: If ceiling mounted, please use caution when opening the lamp access panel. It is recommended to wear safety glasses if changing the bulb when ceiling mounted. "Caution must be used to prevent any loose parts from falling out of projector."

⚠ Warning: Lamp compartment may be hot! Allow it to cool down before changing the 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 screws 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.
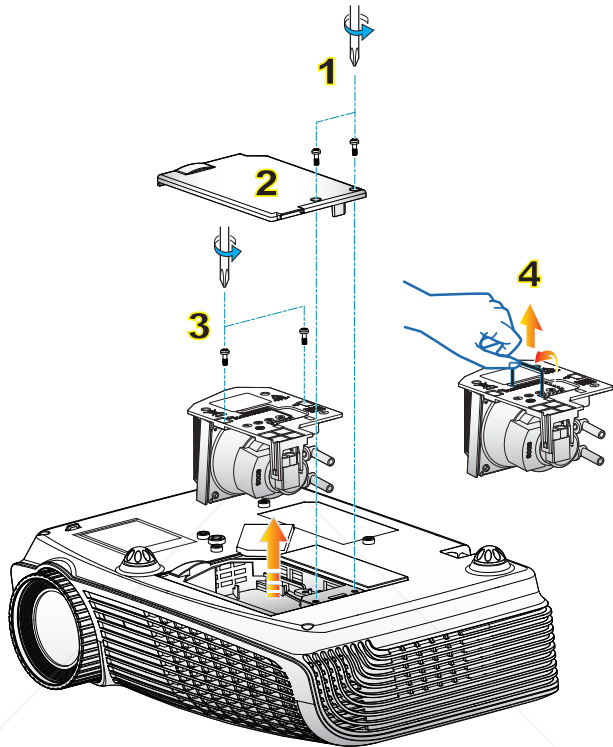
Lamp Replacement Procedure:

1. Switch off the power to the projector by pressing the "⏻" button.
2. Allow the projector to cool down for at least 30 minutes.
3. Disconnect the power cord.
4. Unscrew the two screws on the cover. **1**
5. Lift up and remove the cover. **2**
6. Unscrew the two screws on the lamp module. **3**
7. Lift up the lamp handle and remove the lamp module slowly and carefully. **4**

To replace the lamp module, reverse the previous steps.

8. Turn on the projector and use "Lamp Reset" after the lamp module is replaced.

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

Appendices

Compatibility Modes

▸ Computer Compatibility

Mode	Resolution	V-Sync (Hz)		H-Sync (KHz)	
		Anglog	Digital	Anglog	Digital
VGA	640 × 350	70	70	31.50	31.50
VGA	640 × 350	85	85	37.90	37.90
VGA	640 × 400	85	85	37.90	37.90
VGA	640 × 480	60	60	31.50	31.50
VGA	640 × 480	72	72	37.90	37.90
VGA	640 × 480	75	75	37.50	37.50
VGA	640 × 480	85	85	43.30	43.30
VGA	720 × 400	70	70	31.50	31.50
VGA	720 × 400	85	85	37.90	37.90
SVGA	800 × 600	56	56	35.20	35.20
SVGA	800 × 600	60	60	37.90	37.90
SVGA	800 × 600	72	72	48.10	48.10
SVGA	800 × 600	75	75	46.90	46.90
SVGA	800 × 600	85	85	53.70	53.70
XGA	1024 × 768	60	60	48.40	48.40
XGA	1024 × 768	70	70	56.50	56.50
XGA	1024 × 768	75	75	60.00	60.00
XGA	1024 × 768	85	85	68.70	68.70
WXGA	1280 × 768	60	60,75,85	47.80	47.80
WXGA	1280 × 768	75	-	60.30	-
WXGA	1280 × 720	60	-	45.00	-
WXGA	1280 × 800	60	60	49.68	49.64
SXGA	1152 × 864	60	60	53.50	53.50
SXGA	1152 × 864	70	70	63.80	63.80
SXGA	1152 × 864	75	75	67.50	67.50
SXGA	1152 × 864	85	85	77.10	77.10
SXGA	1280 × 1024	60	60	63.98	63.98
SXGA	1280 × 1024	75	75	79.98	79.98
SXGA	1280 × 1024	85	85	91.10	91.10
SXGA	1280 × 960	60	-	60.00	-
SXGA+	1400 × 1050	60	60	63.98	63.98
UXGA	1600 × 1200	60	60	75.00	75.00

❖ For widescreen resolution (WXGA), the compatibility support is dependent on Notebook/PC models.

Appendices

▸ Computer Compatibility

Mode	Resolution	V-Sync (Hz)	H-Sync (KHz)
MAC LC 13"	640 × 480	66.66	34.98
MAC II 13"	640 × 480	66.68	35.00
MAC 16"	832 × 624	74.55	49.73
MAC 19"	1024 × 768	75	60.24
MAC	1152 × 870	75.06	68.68
MAC G4	640 × 480	60	31.35
i MAC DV	1024 × 768	75	60.00
i MAC DV	1152 × 870	75	68.49
i MAC DV	1280 × 960	75	75.00

▸ Video Compatibility

NTSC	M (3.58MHz), 4.43 MHz
PAL	B, D, G, H, I, M, N
SECAM	B, D, G, K, K1, L
SDTV/HDTV	480i/p, 576i/p, 720p@50Hz/60Hz, 1080i/p@50Hz/60Hz

RS232 Commands and Protocol Function List

RS232 Pin Assignments
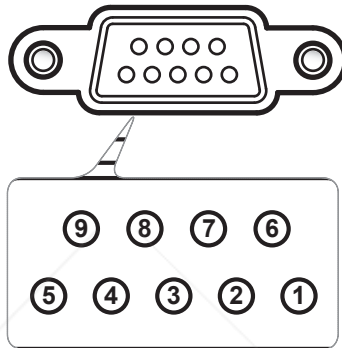
Pin no.	Spec. (from projector side)
1	N/A
2	RXD
3	TXD
4	N/A
5	GND
6	N/A
7	N/A
8	N/A
9	N/A

Appendices

RS232 Protocol Function List

Optoma EX615/EX542 RS232 Command Table

Baud Rate : 9600
Data Bits: 8
Parity: None
Stop Bits: 1
Flow Control : None
UART16550 FIFO: Disable
Projector Return (Pass): P
Projector Return (Fail): F

Note : There is a <CR> after all ASCII commands
0D is the HEX code for <CR> in ASCII code

XX=01-99, projector's ID, XX=00 is for all projectors

SEND to projector

---

232 ASCII Code	HEX Code	Function		Description
~XX00 1	7E 30 30 30 30 20 31 0D	Power ON		
~XX00 0	7E 30 30 30 30 20 30 0D	Power OFF		(0/2 for backward compatible)
~XX00 1 ~nnnn	7E 30 30 30 30 20 31 20 a 0D	Power ON with Password		~nnnn = ~0000 (a=7E 30 30 30 30) - ~9999(a=7E 39 39 39 39)
~XX01 1	7E 30 30 30 31 20 31 0D	Resync		
~XX02 1	7E 30 30 30 32 20 31 0D	AV Mute	On	
~XX02 0	7E 30 30 30 32 20 30 0D		Off (0/2 for backward compatible)	
~XX03 1	7E 30 30 30 33 20 31 0D	Mute	On	
~XX03 0	7E 30 30 30 33 20 30 0D		Off (0/2 for backward compatible)	
~XX04 1	7E 30 30 30 34 20 31 0D	Freeze		
~XX04 0	7E 30 30 30 34 20 30 0D	Unfreeze	(0/2 for backward compatible)	
~XX05 1	7E 30 30 30 35 20 31 0D	Zoom Plus		
~XX06 1	7E 30 30 30 36 20 31 0D	Zoom Minus		
~XX07 1	7E 30 30 30 37 20 31 0D	Up (Pan under zoom)		
~XX08 1	7E 30 30 30 38 20 31 0D	Down (Pan under zoom)		
~XX09 1	7E 30 30 30 39 20 31 0D	Left (Pan under zoom)		
~XX10 1	7E 30 30 31 30 20 31 0D	Right (Pan under zoom)		
~XX12 1	7E 30 30 31 32 20 31 0D	Direct Source Commands	HDMI	
~XX12 5	7E 30 30 31 32 20 35 0D		VGA 1	
~XX12 6	7E 30 30 31 32 20 36 0D		VGA 2	
~XX12 8	7E 30 30 31 32 20 38 0D		VGA 1 Component	
~XX12 9	7E 30 30 31 32 20 39 0D		S-Video	
~XX12 10	7E 30 30 31 32 20 31 30 0D		Video	
~XX12 12	7E 30 30 31 32 20 31 33 0D		VGA 2 SCART	
~XX12 13	7E 30 30 31 32 20 31 33 0D		VGA 2 Component	
~XX20 1	7E 30 30 32 30 20 31 0D	Display Mode	Presentation	
~XX20 2	7E 30 30 32 30 20 32 0D		Bright	
~XX20 3	7E 30 30 32 30 20 33 0D		Movie	
~XX20 4	7E 30 30 32 30 20 34 0D		sRGB	
~XX20 5	7E 30 30 32 30 20 35 0D		User1	
~XX20 6	7E 30 30 32 30 20 36 0D		User2	
~XX20 7	7E 30 30 32 30 20 37 0D		Blackboard	
~XX20 8	7E 30 30 32 30 20 38 0D		Classroom	
~XX21 n	7E 30 30 32 31 20 a 0D	Brightness		n = 0 (a=30) ~ 100 (a=31 30 30)
~XX22 n	7E 30 30 32 32 20 a 0D	Contrast		n = 0 (a=30) ~ 100 (a=31 30 30)
~XX23 n	7E 30 30 32 33 20 a 0D	Sharpness		n = 0 (a=30) ~ 31 (a=33 31)
~XX24 n	7E 30 30 32 34 20 a 0D	Color Settings	Red Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX25 n	7E 30 30 32 35 20 a 0D		Green Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX26 n	7E 30 30 32 36 20 a 0D		Blue Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX27 n	7E 30 30 32 37 20 a 0D		Red Bias	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX28 n	7E 30 30 32 38 20 a 0D		Green Bias	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX29 n	7E 30 30 32 39 20 a 0D		Blue Bias	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX30 n	7E 30 30 33 30 20 a 0D		Cyan	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX31 n	7E 30 30 33 31 20 a 0D		Yellow	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX32 n	7E 30 30 33 32 20 a 0D		Magenta	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX33 1	7E 30 30 33 33 20 31 0D		Reset	
~XX34 n	7E 30 30 33 34 20 a 0D	BrilliantColor™		n = 0 (a=30) ~ 10 (a=31 30)
~XX35 1	7E 30 30 33 35 20 31 0D	Degamma	Film	
~XX35 2	7E 30 30 33 35 20 32 0D		Video	
~XX35 3	7E 30 30 33 35 20 33 0D		Graphics	
~XX35 4	7E 30 30 33 35 20 34 0D		PC	
~XX36 1	7E 30 30 33 36 20 31 0D	Color Temp.	Warm	
~XX36 2	7E 30 30 33 36 20 32 0D		Medium	
~XX36 3	7E 30 30 33 36 20 33 0D		Cold	
~XX37 1	7E 30 30 33 37 20 31 0D	Color Space	Auto	
~XX37 2	7E 30 30 33 37 20 32 0D		RGB	
~XX37 3	7E 30 30 33 37 20 33 0D		YUV	
~XX44 n	7E 30 30 34 34 20 a 0D	Color (Saturation)		n = 0 (a=30) ~ 100 (a=31 30 30)
~XX45 n	7E 30 30 34 35 20 a 0D	Tint		n = 0 (a=30) ~ 100 (a=31 30 30)

~XX60 1	7E 30 30 36 30 20 31 0D	Format	4:3	
~XX60 2	7E 30 30 36 30 20 32 0D		16:9-l	
~XX60 3	7E 30 30 36 30 20 33 0D		16:9-ll	
~XX60 6	7E 30 30 36 30 20 36 0D		Native	
~XX60 7	7E 30 30 36 30 20 37 0D		Auto	
~XX61 n	7E 30 30 36 31 20 a 0D	Overscan		$n = 0$ (a=30) ~ 10 (a=31 30)
~XX62 n	7E 30 30 36 32 20 a 0D	Zoom		$n = -5$ (a=2D 35) ~ 25 (a=32 35)
~XX63 n	7E 30 30 36 33 20 a 0D	H Image Shift		$n = -50$ (a=2D 35 30) ~ +50 (a=35 30)
~XX64 n	7E 30 30 36 34 20 a 0D	V Image Shift		$n = -50$ (a=2D 35 30) ~ +50 (a=35 30)
~XX66 n	7E 30 30 36 36 20 a 0D	V Keystone		$n = -40$ (a=2D 34 30) ~ 40 (a=34 30)
~XX70 1	7E 30 30 37 30 20 31 0D	Language	English	
~XX70 2	7E 30 30 37 30 20 32 0D		German	
~XX70 3	7E 30 30 37 30 20 33 0D		French	
~XX70 4	7E 30 30 37 30 20 34 0D		Italian	
~XX70 5	7E 30 30 37 30 20 35 0D		Spanish	
~XX70 6	7E 30 30 37 30 20 36 0D		Portuguese	
~XX70 7	7E 30 30 37 30 20 37 0D		Polish	
~XX70 8	7E 30 30 37 30 20 38 0D		Dutch	
~XX70 9	7E 30 30 37 30 20 39 0D		Swedish	
~XX70 10	7E 30 30 37 30 20 31 30 0D		Norwegian/Danish	
~XX70 11	7E 30 30 37 30 20 31 31 0D		Finnish	
~XX70 12	7E 30 30 37 30 20 31 32 0D		Greek	
~XX70 13	7E 30 30 37 30 20 31 33 0D		Traditional Chinese	
~XX70 14	7E 30 30 37 30 20 31 34 0D		Simplified Chinese	
~XX70 15	7E 30 30 37 30 20 31 35 0D		Japanese	
~XX70 16	7E 30 30 37 30 20 31 36 0D		Korean	
~XX70 17	7E 30 30 37 30 20 31 37 0D		Russian	
~XX70 18	7E 30 30 37 30 20 31 38 0D		Hungarian	
~XX70 19	7E 30 30 37 30 20 31 39 0D		Czechoslovak	
~XX70 20	7E 30 30 37 30 20 32 30 0D		Arabic	
~XX70 21	7E 30 30 37 30 20 32 31 0D		Thai	
~XX70 22	7E 30 30 37 30 20 32 32 0D		Turkish	
~XX70 23	7E 30 30 37 30 20 32 33 0D		Farsi	
~XX71 1	7E 30 30 37 31 20 31 0D	Projection	Front-Desktop	
~XX71 2	7E 30 30 37 31 20 32 0D		Rear-Desktop	
~XX71 3	7E 30 30 37 31 20 33 0D		Front-Ceiling	
~XX71 4	7E 30 30 37 31 20 34 0D		Rear-Ceiling	
~XX72 1	7E 30 30 37 32 20 31 0D	Menu Location	Top Left	
~XX72 2	7E 30 30 37 32 20 32 0D		Top Right	
~XX72 3	7E 30 30 37 32 20 33 0D		Centre	
~XX72 4	7E 30 30 37 32 20 34 0D		Bottom Left	
~XX72 5	7E 30 30 37 32 20 35 0D		Bottom Right	
~XX73 n	7E 30 30 37 33 20 a 0D	Signal	Frequency	$n = -5$ (a=2D 35) ~ 5 (a=35) By signal
~XX74 n	7E 30 30 37 34 20 a 0D		Phase	$n = 0$ (a=30) ~ 31 (a=33 31) By signal
~XX75 n	7E 30 30 37 35 20 a 0D		H. Position	$n = -5$ (a=2D 35) ~ 5 (a=35) By timing
~XX76 n	7E 30 30 37 36 20 a 0D		V. Position	$n = -5$ (a=2D 35) ~ 5 (a=35) By timing
~XX77 n	7E 30 30 37 37 20 aabbcc 0D	Security	Security Timer	Month/Day/Hour n = mm/dd/hh
				mm = 00 (aa=30 30) ~ 12 (aa=31 32)
				dd = 00 (bb=30 30) ~ 30 (bb=33 30)
				hh = 00 (cc=30 30) ~ 24 (cc=32 34)
~XX78 1	7E 30 30 37 38 20 31 0D		Security Settings	Enable
~XX78 2	7E 30 30 37 38 20 32 0D			Disable
~XX79 n	7E 30 30 37 39 20 a 0D	Projector ID		$n = 00$ (a=30 30) ~ 99 (a=39 39)
~XX80 1	7E 30 30 38 30 20 31 0D	Mute	On	
~XX80 0	7E 30 30 38 30 20 30 0D		Off (0/2 for backward compatible)	
~XX81 n	7E 30 30 38 31 20 a 0D	Volume		$n = 0$ (a=30) ~ 10 (a=31 30)
~XX82 1	7E 30 30 38 32 20 31 0D	Logo	Optoma	
~XX82 2	7E 30 30 38 32 20 32 0D		User	
~XX83 1	7E 30 30 38 33 20 31 0D	Logo Capture		(Option)
~XX88 0	7E 30 30 38 38 20 30 0D	Closed Captioning	Off	Only for EX542
~XX88 1	7E 30 30 38 38 20 31 0D		cc1	Only for EX542
~XX88 2	7E 30 30 38 38 20 32 0D		cc2	Only for EX542
~XX100 1	7E 30 30 31 30 30 20 31 0D	Source Lock	On	
~XX100 0	7E 30 30 31 30 30 20 30 0D		Off (0/2 for backward compatible)	
~XX100 3	7E 30 30 31 30 30 20 33 0D	Next Source		
~XX101 1	7E 30 30 31 30 31 20 31 0D	High Altitude	On	
~XX101 0	7E 30 30 31 30 31 20 30 0D		Off (0/2 for backward compatible)	
~XX102 1	7E 30 30 31 30 32 20 31 0D	Information Hide	On	
~XX102 0	7E 30 30 31 30 32 20 30 0D		Off (0/2 for backward compatible)	
~XX103 1	7E 30 30 31 30 33 20 31 0D	Keypad Lock	On	
~XX103 0	7E 30 30 31 30 33 20 30 0D		Off (0/2 for backward compatible)	
~XX104 1	7E 30 30 31 30 34 20 31 0D	Background Color	Blue	
~XX104 2	7E 30 30 31 30 34 20 32 0D		Black	
~XX104 3	7E 30 30 31 30 34 20 33 0D		Red	
~XX104 4	7E 30 30 31 30 34 20 34 0D		Green	
~XX104 5	7E 30 30 31 30 34 20 35 0D		White	

~XX105 1	7E 30 30 31 30 35 20 31 0D	Advanced	Direct Power On	On
~XX105 0	7E 30 30 31 30 35 20 30 0D			Off (0/2 for backward compatible)
~XX106 n	7E 30 30 31 30 36 20 a 0D		Auto Power Off (min)	n = 0 (a=30) ~ 180 (a=31 38 30) step:5
~XX107 n	7E 30 30 31 30 37 20 a 0D		Sleep Timer (min)	n = 0 (a=30) ~ 995 (a=39 39 39) step:5
~XX114 1	7E 30 30 31 31 34 20 31 0D		Power Mode(Standby)	Eco.(<=1W)
~XX114 0	7E 30 30 31 31 34 20 30 0D			Active (0/2 for backward compatible)

~XX109 1	7E 30 30 31 30 39 20 31 0D		Lamp Reminder	On
~XX109 0	7E 30 30 31 30 39 20 30 0D			Off (0/2 for backward compatible)
~XX110 1	7E 30 30 31 31 30 20 31 0D		Brightness Mode	Bright
~XX110 0	7E 30 30 31 31 30 20 30 0D			STD (0/2 for backward compatible)
~XX111 1	7E 30 30 31 31 31 20 31 0D		Lamp Reset	Yes
~XX111 0	7E 30 30 31 31 31 20 30 0D			No (0/2 for backward compatible)

~XX112 1	7E 30 30 31 31 32 20 31 0D	Reset		Yes

~XX99 1	7E 30 30 39 39 20 31 0D	RS232 Alert Reset	Reset System Alert	
~XX210 n	7E 30 30 32 30 30 20 n 0D	Display message on the OSD		n: 1-30 characters

SEND to emulate Remote

~XX140 1	7E 30 30 31 34 30 20 31 0D	Power	
~XX140 3	7E 30 30 31 34 30 20 33 0D	Remote Mouse Up	
~XX140 4	7E 30 30 31 34 30 20 34 0D	Remote Mouse Left	
~XX140 5	7E 30 30 31 34 30 20 35 0D	Remote Mouse Enter	
~XX140 6	7E 30 30 31 34 30 20 36 0D	Remote Mouse Right	
~XX140 7	7E 30 30 31 34 30 20 37 0D	Remote Mouse Down	
~XX140 8	7E 30 30 31 34 30 20 38 0D	Mouse Left Click	
~XX140 9	7E 30 30 31 34 30 20 39 0D	Mouse Right Click	
~XX140 10	7E 30 30 31 34 30 20 31 30 0D	Up/Page +	
~XX140 11	7E 30 30 31 34 30 20 31 31 0D	Left/Source	
~XX140 12	7E 30 30 31 34 30 20 31 32 0D	Enter (for projection MENU)	
~XX140 13	7E 30 30 31 34 30 20 31 33 0D	Right/Re-SYNC	
~XX140 14	7E 30 30 31 34 30 20 31 34 0D	Down/Page -	
~XX140 15	7E 30 30 31 34 30 20 31 35 0D	Keystone +	
~XX140 16	7E 30 30 31 34 30 20 31 36 0D	Keystone -	
~XX140 17	7E 30 30 31 34 30 20 31 37 0D	Volume -	
~XX140 18	7E 30 30 31 34 30 20 31 38 0D	Volume +	
~XX140 19	7E 30 30 31 34 30 20 31 39 0D	Brightness (1)	
~XX140 20	7E 30 30 31 34 30 20 32 30 0D	Menu (2)	
~XX140 21	7E 30 30 31 34 30 20 32 31 0D	Zoom (3)	
~XX140 22	7E 30 30 31 34 30 20 32 32 0D	HDMI (4)	
~XX140 23	7E 30 30 31 34 30 20 32 33 0D	Freeze (5)	
~XX140 24	7E 30 30 31 34 30 20 32 34 0D	AV Mute (6)	
~XX140 25	7E 30 30 31 34 30 20 32 35 0D	S-Video (7)	
~XX140 26	7E 30 30 31 34 30 20 32 36 0D	VGA1/2 toggle (8)	
~XX140 27	7E 30 30 31 34 30 20 32 37 0D	Video (9)	

SEND from projector automatically

232 ASCII Code	HEX Code	Function	Projector Return	Description
when Standby/Warming/Cooling/Out of Range/Lamp fail/ Fan Lock/Over Temperature/Lamp Hours Running Out/Lamp Cover Open			INFOn	n : 1/2/3/4/5/6/7/8/9 = Standby/Warming/Cooling/Out of Range/Lamp fail/ Fan Lock/Over Temperature/Lamp Hours Running Out/Lamp Cover Open

READ from projector

232 ASCII Code	HEX Code	Function	Projector Return	Description
~XX121 1	7E 30 30 31 32 31 20 31 0D	Input Source Commands	OKn	n : 0/1/2/3/4/5 = None/VGA1/VGA2/S-Video/Video/HDMI
~XX122 1	7E 30 30 31 32 32 20 31 0D	Sofware Version	OKdddd	dddd: FW version
~XX123 1	7E 30 30 31 32 33 20 31 0D	Display Mode	OKn	n : 0/1/2/3/4/5/6/7/8 = None/Presentation/Bright/Movie/sRGB/User1/User2/ Blackboard/Classroom
~XX124 1	7E 30 30 31 32 34 20 31 0D	Power State	OKn	n : 0/1 = Off/On
~XX125 1	7E 30 30 31 32 35 20 31 0D	Brightness	OKn	
~XX126 1	7E 30 30 31 32 36 20 31 0D	Contrast	OKn	
~XX127 1	7E 30 30 31 32 37 20 31 0D	Aspect Ratio	OKn	n : 0/1/2/3/4 = 4:3/16:9-I/16:9-II/Native/AUTO
~XX128 1	7E 30 30 31 32 38 20 31 0D	Color Temperature	OKn	n : 0/1/2 = Warm/Medium/Cold
~XX129 1	7E 30 30 31 32 39 20 31 0D	Projection Mode	OKn	n : 0/1/2/3 = Front-Desktop/ Rear-Desktop/ Front-Ceiling/ Rear-Ceiling
~XX150 1	7E 30 30 31 35 30 20 31 0D	Information	OKabbbbccddde	a : 0/1 = Off/On bbbb: LampHour cc: source 00/01/02/03/04/05 = None/VGA1/VGA2/S-Video/Video/HDMI dddd: FW version e : Display mode 0/1/2/3/4/5/6/7/8 None/Presentation/Bright/Movie/sRGB/User1/User2/ Blackboard/Classroom
~XX151 1	7E 30 30 31 35 31 20 31 0D	Model name	OKn	n:1/2=EX615,EX542
~XX108 1	7E 30 30 31 30 38 20 31 0D	Lamp Hours	OKbbbb	bbbb: LampHour
~XX108 2	7E 30 30 31 30 38 20 31 0D	Cumulative Lamp Hours	OKbbbbb	bbbbb: (5 digits) Total Lamp Hours

Ceiling Mount Installation

1. To prevent damage to your projector, please use the Optoma ceiling mount.

2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attach a mount to the projector meet the following specifications:

   ▸ Screw type: M3*3

   ▸ Maximum screw length: 10mm

   ▸ Minimum screw length: 7.5mm

❖ Please note that damage resulting from incorrect installation will invalidate the warranty.

⚠ Warning:

1. 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.

2. Be sure to keep at least 10 cm gap between the ceiling and the bottom of the projector.

3. Avoid installing the projector near a heat source.
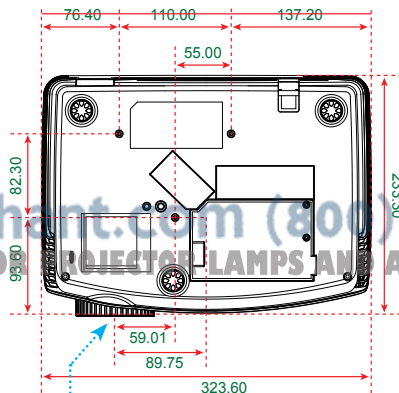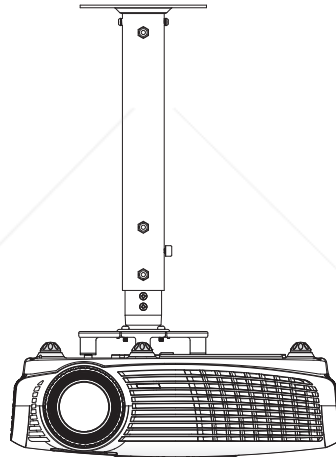
76.40   110.00   137.20

55.00

82.30

93.50

233.30

59.01

89.75

323.60

Unit: mm

Lens

Optoma Global Offices

For service or support please contact your local office.

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715 Sycamore Drive   Tel : 408-383-3700
Milpitas, CA 95035, USA   Fax: 408-383-3702
www.optomausa.com   Service : services@optoma.com

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ON, L4Z 2A9, Canada   Fax: 905-361-2581
www.optoma.ca   Service : canadacsragent@optoma.com

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www.optoma.eu   Fax: +44 (0) 1923 691 888
Service Tel : +44 (0)1923 691865   Service : service@tsc-europe.com

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81-83 avenue Edouard Vaillant   Fax: +33 1 41 46 94 35
92100 Boulogne Billancourt, France Service : savoptoma@optoma.fr

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3015 Drammen   Fax: +47 32 83 78 98
Norway   Service : info@optoma.no

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Taipei Taiwan 231, R.O.C.   Service : services@optoma.com.tw
www.optoma.com.tw   asia.optoma.com

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Cheung Sha Wan,   Fax: +852-2370-1222
Kowloon, Hong Kong   www.optoma.com.hk

China

5F, No. 1205, Kaixuan Rd.,   Tel : +86-21-62947376
Changning District   Fax: +86-21-62947375
Shanghai, 200052, China   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 numerique de la classe B est conforme a la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

• EMC Directive 2004/108/EC (including amendments)
• Low Voltage Directive 2006/95/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.

Disclaimer

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http://www.fixyourdlp.com/counterfeits

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RecycleYourLamp.org – Free lamp recycling services for used lamps:
http://www.recycleyourlamp.org

Lamp Research - The trusted 3rd party lamp research company:
http://www.lampresearch.com

Discount-Merchant.com – The worlds largest lamp distributor:
http://www.discount-merchant.com