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Usage Notice





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 import operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE PROJECTOR 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. Read these instructions -before using this projector.
- 2. Keep these instructions -for future reference.
- 3. Follow all instructions.
- 4. Install in accordance with the manufacturer's instructions:
 - A. Do not block any ventilation openings. To ensure reliable operation of the projector and to protect it from overheating, put the projector in a position and location that will not interfere with its proper ventilation. For example, do not place the projector on a bed, sofa, carpet, or similar surface that may block the ventilation openings. Do not put it in an enclosure, such as a bookcase or a cabinet that may keep air from flowing through its ventilation openings.
 - B. Do not use this projector near water or moisture. To reduce the risk of fire or electric shock, do not expose the projector to rain or moisture.
 - C. **Do not install near any heat sources**, such as radiators, heaters, stoves or other apparatus (including amplifiers) that produce heat.
- 5. Clean only with a dry cloth.
- 6. Only use attachments/accessories specified by the manufacturer.
- 7. Refer all servicing to qualified service personnel. Servicing is required when the projector has been damaged in any way, such as:

THE TRUSTED SO Power supply cord or plug is damaged. ND ACCESSORIES

- Liquids have spilled or objects have fallen into the apparatus.
- ☐ The projector has been exposed to rain or moisture, does not operate normally, or has been dropped.





Usage Notice

- Do not attempt to service this projector yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma to be referred to an authorized service center near you.
- 8. Do not let objects or liquids enter the projector as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
- 9. See projector enclosure for safety related markings.
- 10. The projector should not be adjusted or repaired by anyone except properly qualified service personnel.



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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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 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 unit to cool down, and follow all replacement instructions. See page 50.
- Warning This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Warning Use the "Lamp Reset" function from the on-screen display "Options | Lamp Settings" menu after replacing the lamp module (see page 44).
- Warning When switching the projector off, please ensure the cooling cycle has been completed before disconnecting the power. Allow 90 seconds for the projector to cool down.
- Warning Do not use the lens cap when projector is in operation.
- Warning When the lamp is approaching the end of its life, the message "Lamp is approaching the end of its useful life" displays on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.
 - Warning To reduce the risk of injury to the eyes, do not look directly into the laser beam on the remote control and do not point URGE FO the laser beam into anyone's eyes. This remote control is equipped with a Class II laser that emits radiation.



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 50

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- 51.

Usage Notice

Do:

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

Don't:

- Do not block the ventilation slots and openings on the unit.
- * Do not use abrasive cleaners, waxes or solvents to clean the unit.
- * Do not use under the following conditions:
 - In extremely hot, cold or humid environments. Ensure that the ambient room temperature is within 5-40 °C and relative humidity is 10-85% (max.), non-condensing.
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance that generates a strong magnetic field.
 - In direct sunlight.



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Usage Notice

Eye Safety Warnings



- Avoid staring directly into the projector's beam of light at all times.
- Minimize standing facing into the beam. Keep your back to the beam as much as possible.
- Using a stick or laser pointer is recommended to avoid the need for the presenter to enter the beam.
- Ensure that projectors are located out of the line of sight from the screen to the audience; this ensures that, when presenters look at the audience, they do not also have to stare at the projector lamp. The best way to achieve this is by ceiling-mounting the projector rather than placing it on floor or table top.
- 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 needed, use room blinds to reduce ambient light levels.



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Product Features

This product is a single chip 0.55'' DLP® projector. Outstanding features include:

- ◆ Texas Instruments Single chip DLP® Technology
- Computer Compatibility:
 Apple Macintosh, iMac, and VESA Standards:
 UXGA, SXGA+, SXGA, WXGA, WUXGA, XGA, SVGA, VGA
- ◆ Video Compatibility:
 - NTSC, NTSC4.43
 - PAL/PAL-M/PAL-N/SECAM
 - SDTV compatible (480i/p, 576i/p)
 - HDTV compatible (720p, 1080i, 1080p)
- Auto source detection with user definable settings
- Full function IR remote control with laser pointer and mouse control
- User friendly multilingual On Screen Menu
- Advanced digital keystone correction and high quality full screen image re-scaling
- User friendly control panel
- One built-in speaker with 1 Watt amplifier
- Macintosh and PC compatible



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Package Overview

This projector comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if anything is missing.



Projector with lens cap Zoom Series/Fix Zoom Series

IR Remote Control (with 2 x AAA Batteries)



Power Cord 1.8m



VGA Cable 1.8m



USB Cable 1.8m (XGA series only for EMEA region)



Due to the difference in applications for each country, some regions may have different ac-



Carrying Case (optional)



RGB to Component Adapter (optional)

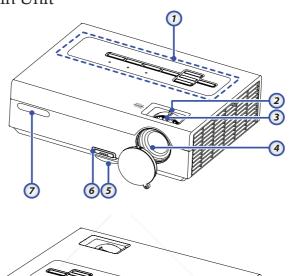


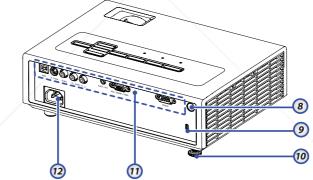
SCART to RGB & S-Video Adapter (optional)

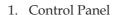


- ☑ User's Manual
- Warranty Card COM (800) 281-8860
- THE TRUSTED SOUM Quick start Caractor LAMPS AND ACCESSORIES
 - ☑ WEEE Card

Product Overview Main Unit







- 2. Zoom (Zoom series only)
- 3. Focus

6. Elevator button

- 7. Front IR Receiver
- Rear IR Receiver
- 9. Kensington™ Lock

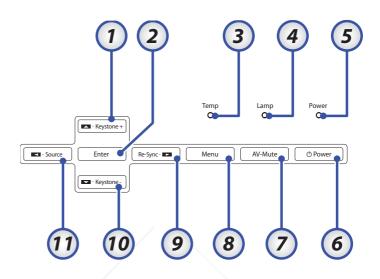
10. Tilt-Adjustment Foot Connection Ports 11. Connection Po12. Power Socket







Control Panel



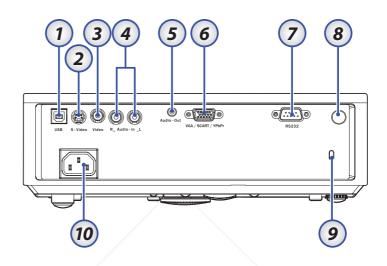
- 1. Keystone +
- 2. Enter
- 3. Temp LED
- 4. Lamp LED
- 5. Power LED
- 6. Power

- 7. AV-Mute
- 8. Menu
- 9. Re-Sync
- 10. Keystone -
- 11. Source



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Rear View



- USB Connector
- (Connect to PC for Remote Mouse function)
- 2. S-Video Input Connector
- 3. Video Input
- 4. Audio Input Connector (left and right)
- 5. Audio Out

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- 6. VGA In/ SCART/ YPbPr Connector
- 7. RS-232 Connector
- 8. Rear IR Receiver
- 9. Kensington™ Lock Port

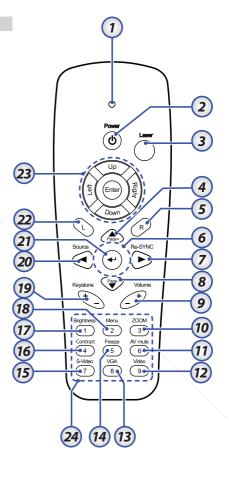


Remote Control

- 1. Button LED
- 2. Power On/Off
- 3. Laser Button
- 4. Page Up
- 5. Mouse Right Click
- 6. Four Directional Select Keys
- 7. Re-Sync
- 8. Page Down
- 9. Volume +/-
- 10. Zoom
- 11. AV mute
- 12. Video Source
- 13. VGA Source
- 14. Freeze
- 15. S-Video Source
- 16. Contrast
- 17. Brightness
- 18. Menu
- 19. Keystone +/-
- 20. Source
- 21. Enter
- 22. Mouse Left Click
- 23. PC/Mouse control

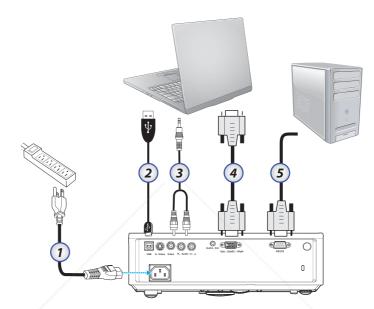
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Connecting the Projector Connect to Computer / Notebook





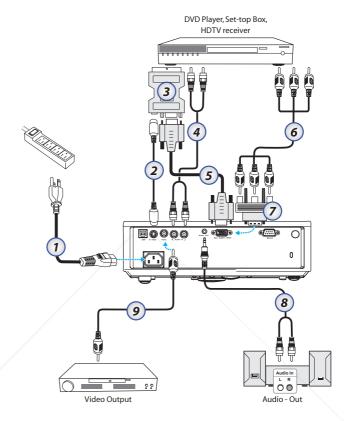
Due to the difference in applications for each country, some regions may have different accessories.

- 1. Power Cord
- 2. USB Cable
- 3. Audio-in (RCA Type cable)
- 4. VGA Cable
- 5. RS-232 Cable



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Connect to Video Sources





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

- 1. Power Cord
- 2. S-Video Cable (optional)
- 3. SCART to RGB & S-Video Adapter (optional)
- 4. RCA Type audio cable (optional)
- 5. VGA Cable
- 6. Component Cable (optional) (800) 281-8860

HE TRUSTED SO7.RRGB to Component Adapter (optional) ACCESSORIES

- 8. Audio-out RCA Type cable (optional)
- 9. Composite Video Cable (optional)

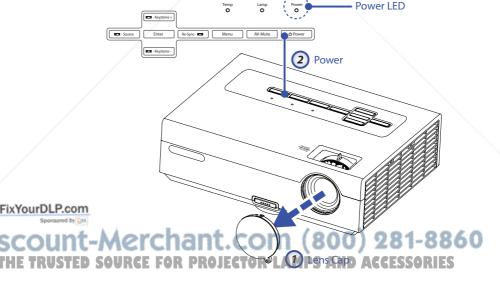


Powering On / Off the Projector Powering On the Projector

- 1. Remove the lens cap. **1**
- 2. Ensure that the power cord and signal cable are securely connected. The Power LED flashes slowly green ②.
- 3. Turn on the lamp by pressing **Power** either on the top of the projector or on the remote. The Power LED flashes rapidly green. The startup screen displays in approximately 10 seconds.
- 4. Turn on your source (computer, notebook, video player, etc.). The projector will detect your source automatically.
 - If you connect multiple sources at the same time, press the "Source" button on the control panel or direct source key on the remote control to switch between inputs.



Turn on the projector first and then select the signal sources.





Powering Off the Projector

 Press Power to turn off the projector lamp, a message displays on the projector's screen.



- Press Power again to confirm, otherwise the message disappears after 15 seconds.
- 3. The cooling fans continue to operate for about 10 seconds for cooling cycle. When the Power LED flashes slowly green, 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 **Power** to restart the projector.
- 4. Disconnect the power cord from the electrical outlet and the projector.
- 5. Do not turn on the projector immediately following a power off procedure.

Warning Indicator

- When the LAMP indicator lights red, the projector will automatically shut itself down. Please contact your local reseller or service center. See pages 60-61.
- When the TEMP indicator lights red, it indicates the projector has overheated. The projector will automatically shut itself down. Under normal conditions, the projector can be switched on again after it has cooled down. If the problem persists, you should contact your local dealer or our service center. See pages 60-61.
- When the TEMP indicator flashes red, it indicates the fan has failed. Please contact your local dealer or our service center. See pages 60-61.

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Adjusting the Projected Image Adjusting the Projector's Height

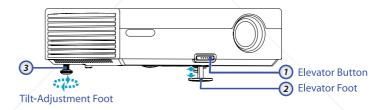
The projector is equipped with elevator foot for adjusting the image height.

To raise the image:

- 1. Press the elevator button **①**.
- 2. Raise the image to the desired height angle ②, then release the button to lock the elevator foot into position.
- 3. Use screw in foot **3** to fine-tune the display angle.

To lower the image:

- 1. Press the elevator button.
- 2. Lower the image, then release the button to lock the elevator feet into position.
- 3. Use screw in foot 3 to fine-tune the display angle.

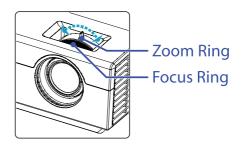




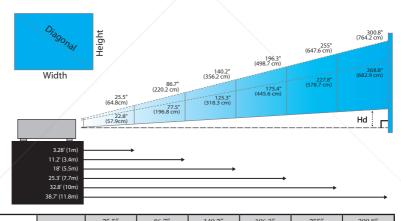
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Adjusting the Zoom / Focus (Zoom Series)

You may turn the zoom ring to zoom in or out. To focus the image, rotate the focus ring until the image is clear. The projector will focus at distances from 3.28 to 38.7 feet (1 to 11.8 meters).



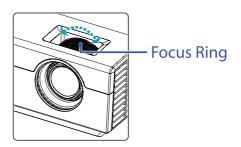
Adjusting Projection Image Size



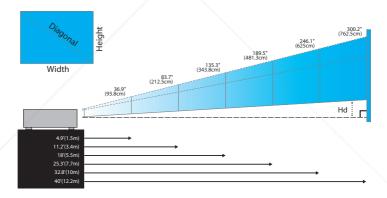
| | Screen | Max. | (64.8cm) | (220.2cm) | (356.2cm) | (498.7cm) | (647.6cm) | (764.2cm) | |
|----------|------------------------|---------------|--------------------------------|----------------------------------|---------------------------------|------------------------------------|--------------------------------|------------------------------------|----|
| | (Diagonal) | Min. | 22.8" (57.9cm) | 77.5" (196.8cm) | 125.3" (318.3cm) | 175.4" (445.6cm) | 227.8" (578.7cm) | 268.8" (682.9cm) | |
| FixYourI |)LP.com Screen size | Max (WxH). | 20.4" x 15.3" 51.8 x 38.9cm | 69.4" x 52.0" 176.2 x 132.1cm | 112.1" x 84.1" 285 x 213.7cm | 157.1" x 117.8" 399 x 299.2cm | 204" x 153" 518.1 x 388.6cm | 240.7" x 180.5" 611.4 x 458.5cm | |
| Disco | unt- | Min. (WxH) | 18.2" x 13.7" 46.3 x 34.7cm | 62"" x 45.5" 157.4 x 118.1cm | 100.2" x 75.2" 254.6 x 191cm | 140.3" x 105.3" 356.5 x 267.4cm | 182.3" x 136.7" 463 x 347cm | 215.1" x 161.3" 546.3 x 409.7cm | 50 |
| THE TR | USTED S | Max. | 2.1" (5.4cm) | 7.2" (18.5cm) | 11.8" (29.9cm) | 16.5" (41.9cm) | 21.4" (54.4cm) S | 25.2″ (64.2cm) | |
| | нα | Min. | 1.9" (4.9cm) | 6.5" (16.5cm) | 10.5" (26.7cm) | 14.7" (37.4cm) | 19.1" (48.6cm) | 22.6" (57.4cm) | |
| | Dista | nce | 3.28' (1m) | 11.2' (3.4m) | 18' (5.5m) | 25.3' (7.7m) | 32.8' (10m) | 38.7' (11.8m) | |

Adjusting the Focus (Fixed Zoom Series)

The Fixed Zoom Series' lens is fixed and does not provide a zoom function. To focus the image, rotate the focus ring until the image is clear. The projector will focus at distances from 4.9 to 40 feet (1.5 to 12.2 meters).



Adjusting Projection Image Size

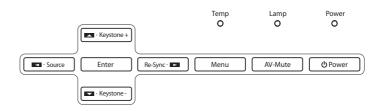




| Screen (Diagonal) | 36.9" (93.8cm) | 83.7" (212.5cm) | 135.3" (343.8cm) | 189.5" (481.3cm) | 246.1" (625cm) | 300.2" (762.5cm) | |
|----------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|--------------------------------|----------------------------------|----|
| Screen size | 29.5" x 22.2" 75 x 56.3 cm | 66.9" x 50.2" 170 x 127.5 cm | 108.3" x 81.2" 275 x 206.3cm | 151.6" x 113.7" 385 x 288.8cm | 196.9" x 147.6" 500 x 375cm | 240.2" x 180.1" 610 x 457.5cm | |
| Hd | 3.1" (7.9cm) | 7" (17.9cm) | 11.4" (28.9cm) | 15.9" (40.4cm) | 20.7" (52.5cm) | 25.2" (64.1cm) | 20 |
| Distance | 4.9' (1.5m) | 11.2' (3.4m) | 18' (5.5m) | 25.3' (7.7m) | 32.8' (10m) | 40' (12.2m) | PU |

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Control Panel & Remote Control Control Panel

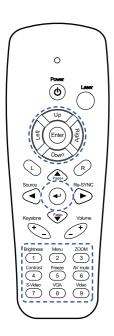


| Using the Contro | l Panel |
|-------------------------|---|
| Keystone + | Adjust the image Keystone positively. |
| Enter | Confirm your item selection. |
| Temp LED | Indicate the projector's temperature status. |
| Lamp LED | Indicate the projector's lamp status. |
| Power LED | Indicate the projector's status. |
| Power | Refer to the "Power On/Off the Projector" section on page 15. |
| AV-Mute | Momentarily turns off / on the audic and video. |
| Menu | Press Menu to launch the on-screen display (OSD) menu. To exit OSD, Press Menu again. |
| Re-Sync | Automatically synchronizes the projector to the input source. |
| Keystone - | Adjust the image Keystone negatively. |
| Source | Press Source to select an input signal. |



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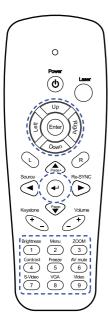
Remote Control



| Using the Remote Control | | | | | | |
|------------------------------------|---|--|--|--|--|--|
| Power (b) | Refer to the "Power On/Off the Projector" section on page 15. | | | | | |
| Laser | Aim the remote at the viewing screen, press and hold this button to activate the laser pointer. | | | | | |
| PC / Mouse control | The PC/Mouse control can be used to control mouse movement. The mouse function is enabled using the USB cable to connect your computer and the projector. | | | | | |
| 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 ← | Confirm your item selection. | | | | | |
| 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 +/- | Adjusts image distortion caused by tilting the projector. (±30 degrees) | | | | | |
| Volume +/- | Adjusts to increase/decrease the volume. | | | | | |
| Brightness | Adjust the brightness of the image. | | | | | |



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| Using the Remote Control | | | |
|--------------------------|---|--|--|
| Menu | Press Menu to launch the on-screen display (OSD) menu. To exit OSD, Press Menu again. | | |
| Zoom | Press +/- to zoom in of an image. | | |
| Contrast | Press Contrast to adjust the contrast of an image. | | |
| VGA | Press VGA to choose source from VGA- IN connector. | | |
| AV Mute | Momentarily turns off/on the audio and video. | | |
| S-Video | Press S-Video to choose S-Video source. | | |
| Freeze | Press Freeze to pause the screen image. | | |
| Video | Press Video to choose Composite video source. | | |



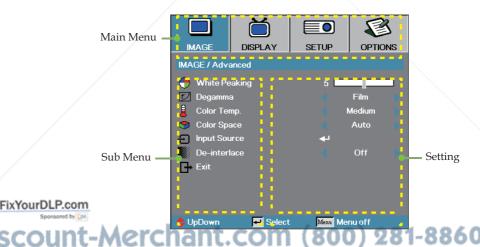
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On-screen Display Menus

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.

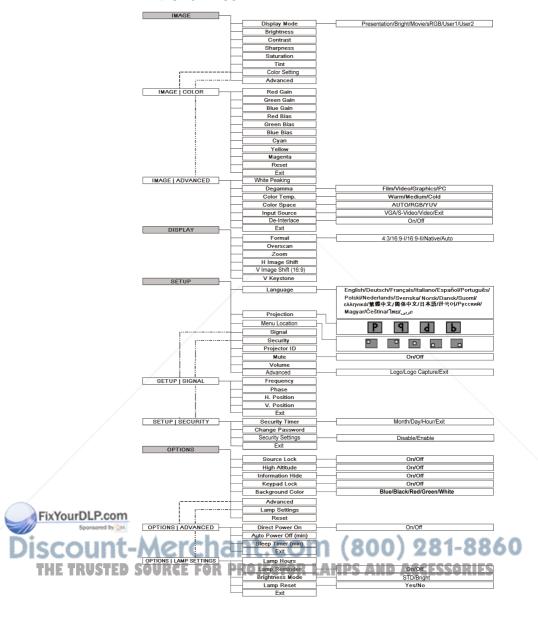
How to operate

- 1. To open the OSD menu, press **Menu** on the Remote Control or Projector Keypad.
- 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 to enter sub menu.
- 3. Use ▲ ▼ keys to select the desired item and adjust the settings by ◀▶ key.
- 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
- To exit, press Menu again. The OSD menu will close and the projector will automatically save the new settings.



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Menu Tree



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.
- User1: User's own 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 ▶ to lighten the image.

<u>Contrast</u>



The contrast controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

Press > to increase the contrast.

Sharpness

Adjusts the sharpness of the image.

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





Saturation

Adjusts a video image from black and white to fully saturation color.

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

Tint

Adjusts the color balance of red and green.

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

Color Setting

Enter the Color Setting menu. Select the Red/Green/Blue Gain for brightness adjustments and Bias for contrast adjustments for the whole picture. Individual color adjustments for Cyan, Magenta, Yellow can also be adjusted. See page 27 for more details.

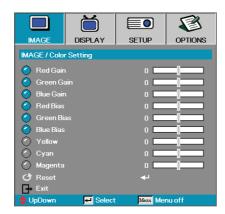
Advanced

FixYourDLP.com Enter the Advanced menu. Select advanced display options such as White

Peaking, Degamma, Color Temp., Color Space, Input Source, De-Interlace, and Exit. See page 28 for more information.

PROJECTOR LAMPS AND ACCESSORIES

Image | Color Setting



Gain

Set RGB gain for the following colors:

- ▶ Red increase or decrease the gain value for red.
- ▶ Green increase or decrease the gain value for green.
- ▶ Blue increase or decrease the gain value for blue.

Bias

Set RGB bias for the following colors:

- ▶ Red increase or decrease the bias value for red.
- Green increase or decrease the bias value for green.
- ▶ Blue increase or decrease the bias value for blue.

Color

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Set values for the following colors:

- ▶ Yellow increase or decrease the color value for yellow.
- ▶ Cyan increase or decrease the color value for cyan.
- ▶ Magenta increase or decrease the color value for magenta.

iscount-Reset rchant.com (800) 281-8860
THE TRUSTED Sories all Color Setting values to the factory default. ACCESSORIES





White Peaking

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.

<u>Degamma</u>

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.

Color Temp

Adjust the color temperature. Cold temperature, the screen looks colder; with Warm temperature, the screen looks warmer.

Color Space

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

Input Source

Enter the Input Source submenu. Select the sources to scan for at startup. See page 29 for more information.

De-interlace

Press the cursor ◀ or ▶ button to select different De-interlace modes. This function converts an interlaced video signal into progressive signal.

- On: Automatically switch the De-interlace mode and Film mode.
- Off: Switch De-interlace mode to video mode for video source or TV source



Image | Advanced | Input Source





If all sources are deselected, the projector cannot display any images. Always leave at least one source selected.

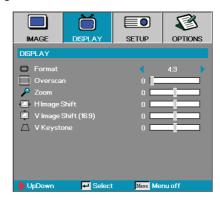
Input Source

Enable input sources. Press \blacktriangleleft or \blacktriangleright into the next menu as below and then use \blacktriangle or \blacktriangledown to select. Press **Enter** to finalize the selection. The projector will not search inputs that are de-selected.



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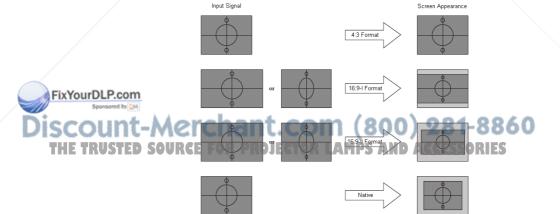
Display



Format

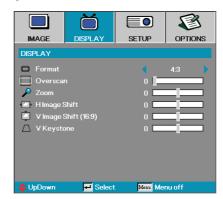
Use this function to choose your desired aspect ratio.

- ▶ 4:3: This format is for 4x3 input sources not enhanced for Wide screen TV.
- 16:9 I: This format is for 16x9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- ▶ 16:9 II: The non-standard wide-screen display format of the projector. Part of the original image will be cut if the image aspect ratio is less than 1.67:1.
- Native: Depends on the resolution of the display.
- Auto: Automatically selects the appropriate format.



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Display



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

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

H Image Shift

Shifts the projected image position horizontally.

- ▶ Press ◀ to move the image left on the projected screen.
- ▶ Press ▶ to move the image right on the projected screen.

V Image Shift (16:9 only)

Shifts the projected image position vertically (in 16:9 format only).

- ▶ Press to move the image up on the projected screen.
- ▶ Press ▶ to move the image down on the projected screen.



THE TRUSTED Scriess of the to adjust image distortion vertically and to create a regular image.

Setup



Language

Enter the Language menu. Select the multilingual OSD menu. See page 34 for more information.

Projection

Select projection method:

- Front DesktopThe factory default setting.
- Rear Desktop When you select this function, the projector reverses the image so you can project behind a translucent screen.
- Id Front Ceiling When you select this function, the projector turns the image upside down for ceiling-mounted projection.
- When you select this function, the projector reverses and turns the image upside down at same time. You can project from behind a translucent screen with ceiling mounted projection.



Choose the menu location on the display screen.



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Setup



Signal

Enter the Signal menu. Set projector signal properties. See page 35 for more information.

Security

Enter the Security menu. Access the projector's security features. See page 36 for more information.

Projector ID

Select a two digit projector ID from 0 through 99.

Mute

Toggle Mute on/off.

Volume

Set the output volume. If Mute is active, adjusting the volume turns off mute.



<u>Advanced</u>

Enter the Advanced menu. Select the screen display during startup. See page 39 for more information.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Setup | Language



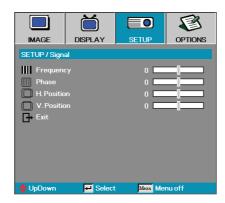
Language

Choose the multilingual OSD menu. Press \triangleleft or \triangleright into the sub menu and then use the \triangle or \blacktriangledown key to select your preferred language. Press Enter to finalize the selection.



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Setup | Signal



Frequency

Change the display data frequency to match the frequency of your computer's graphic card. If you experience a vertical flickering bar, use this function to make an adjustment.

Phase

Phase synchronizes the signal timing of the display with the graphic card. If you experience an unstable or flickering image, use this function to correct it.

H. Position

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

V. Position

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



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Setup | Security





No password is required to access Setup | Security unless the Security Timer or Security Setting are enabled.

Security Timer

Enter the Security Timer sub menu.



Enter the Months, Days, and hours that the projector can be used without entering the password. Exiting to the Setup menu activates the Security Timer.

Once activated, the projector requires a password on the specified dates and times to allow power on and access to the security menu.

If the projector is in use and the Security Timer is active, the following screen displays 60 seconds before the password is required. Setup | Security



THE TRUSTED SOURCE FO



Setup | Security



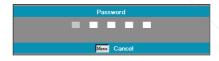


If the incorrect password is entered three times, the device auto shutdowns after 10 seconds.

Change Password

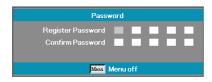
Use this submenu to change the security password for the projector.

- 1. Select Change Password from the Security submenu. The Confirm Change Password dialog box displays.
- 2. Select Yes.



3. Enter the default password <1> <2> <3> <4> <5>.

A second password screen displays.



4. Enter the new password twice for verification.

If the new nt-Merchant.com (800) 281-8860

The passwords of the source for Projector Lamps and Accessories

do not match, the password screen redisplays.

xYourDLP.com

Setup | Security

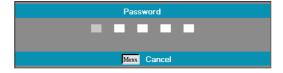


Security Setting

Enable or disable the security password.

- Enabled—the current password is required to power on the projector and access the Security menu.
- ▶ Disabled—no password is required for any function.

When security is enabled, the following screen displays at startup and before access to the Security menu is allowed:





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Setup | Advanced



Logo

Select the screen to display during startup.

- ▶ Optoma the supplied default startup screen.
- ▶ User customized screen capture using the Logo Capture function.

Logo Capture

Capture a displayed screen to use as the startup screen.

- 1. Display the desired screen on the projector.
- 2. Select Logo Capture from the Advanced menu. A confirmation screen displays.



at once.
Subsequent
FICTOUTES OVER
write previous

can be saved

 Only one startup screen

3. Select **OK**. Screen capture in progress.

Screen capture succeeded displays. The captured screen is saved as **User** in the Logo menu.

ОК

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Options



Source Lock

Lock the current source as the only available source, even if the cable is unplugged.

- ▶ On—only the current source is recognized as an input source.
- Off all sources selected in Image | Advanced | Input Source are recognized as an input source.

High Altitude

Adjust the fan speed to reflect the environment.

- ▶ On—increases fan speed for high temperature, humidity, or altitude.
- ▶ Off—regular fan speed for normal conditions..

Information Hide

Suppress informational messages on the projected screen.

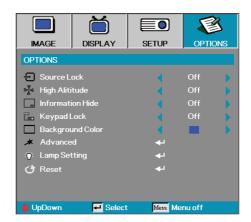
- ▶ On—no status messages appear on screen during operation.
- ▶ Off status messages appear as normal on screen during operation.

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Options



Keypad Lock

Lock the buttons on the projector top panel.

▶ On—a warning message displays to confirm keypad lock.



Press Enter on the projector for 5 seconds to disable the keypad lock.

▶ Off – projector keypad functions as normal.

Background Color

Select the desired background color for the projected image when no source is detected.



Advanced

Enter the Advanced menu, See page 42 for more details.

Lamn Setting PROJECTOR LAMPS AND ACCESSORIES

IE TRUSTED <u>Stamp Setting</u> PROJECTOR LAMPS AND ACCESSORIES

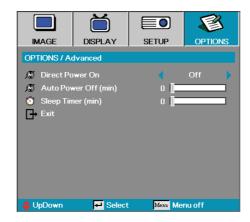
Enter the Lamp Setting menu. See page 43 for more details.

Reset

Reset all Options to default factory settings.



Options | Advanced



Direct Power On

Enable or disable Direct Power On.

- ▶ On—the projector powers on automatically when AC power is supplied.
- ▶ Off the projector must be powered on as normal.

Auto Power Off

Set the Auto Power Off interval. The projector powers off the lamp after 15 minutes of no signal by default. The following warning is displayed 60 seconds before power off.

The projector will automatically shutdown after 60 sec.

Sleep Timer

Set the Sleep Timer interval. The projector powers off after the specified time period of inactivity (regardless of signal). The following warning is displayed 60 seconds before power off.



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The projector will automatically shutdown after $\,$ 60 sec.

1-8860

Options | Lamp Setting



Lamp Hour

Displays the number of hours the lamp has been active. This item is for display only.

Lamp Reminder

Enable or disable the lamp life span reminder.

▶ On—a warning message displays when remaining lamp life is less than 30 hours.



▶ Off—no warning message displays.

Brightness Mode

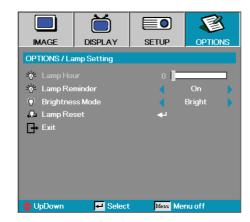
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Select the lamp brightness mode.

- ▶ Bright—the default setting.
- ▶ STD—lower brightness setting to conserve lamp life.



Options | Lamp Setting

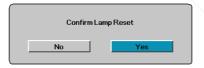


Lamp Reset

After replacing the lamp, reset the lamp counter to accurately reflect the new lamp's life span.

1. Select Lamp Reset.

A confirmation screen displays.



2. Select Yes to reset the lamp counter to zero.



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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 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.

Partial, scrolling or incorrectly displayed image

- Press "Re-Sync" on the remote.
- If you are using a PC:

For Windows 95, 98, 2000, XP:

- 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 x 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.

THE TRUSTED SOU 8. Verify that the resolution setting of the monitor display is lower than or equal to UXGA (1600 x 1200). (*)



- If you are using a Notebook:
 - 1. First, follow the steps above to adjust resolution of the com-
 - 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 | | | | | |

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: Some Notebooks 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 35 for more information.
- ▶ Change the monitor color setting on your computer.

Image has vertical flickering bar

- Use **Frequency** to make an adjustment. See page 35 for more information.
- Check and reconfigure the display mode of your graphic card to make it compatible with the projector.

(800) 281-8860 Image is out of focus

SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES Make sure the lens cap is removed.

- Adjusts the Focus Ring on the projector lens.
- Make sure the projection screen is between the required distances from the projector. See page 18 and 19 for more information.



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 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

- 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



 Use of Keystone is not recommended.

- If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.
- Press [Keystone +/-] button until the sides are vertical on the remote control.

Image is reversed

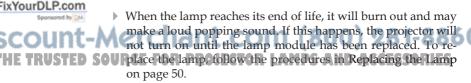
Select Setup | Projection from the OSD and adjust the projection direction.

Intermission Problems

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.

Lamp burns out or makes a popping sound



Projector Status Indication

| Massaga | Power LED | Lamp LED | Temp LED |
|---------------------------------|-----------|----------|----------|
| Message - | (Green) | (Red) | (Red) |
| Over Temp | Ο | Ο | * |
| Lamp Fail | О | * | O |
| Thermal Break Status Error | 4 | 4 | О |
| Lamp Door Sensor Detect High | 7 | О | O |
| DMD Error | 8 | O | Ο |
| Color Wheel Error | 9 | 0 | 0 |
| Fan 1 error (Lamp Fan | 6 | 1 | O |
| Fan 2 error (Power Fan) | 6 | 2 | O |
| Fan 3 error (Blower Fan) | 6 | 3 | O |



Steady light ⇒ 💥

No light ⇔ ()



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Message Reminders

Replacing the lamp:



Out of range: (see the following for more information)



Remote Control Problems

If the remote control does not work

- Check the operating angle for the remote control is approximately ±15°.
- Make sure there are no obstructions between the remote control and the projector. Move to within 7m (23 ft) of the projector.
- Make sure the batteries are inserted correctly.
- Replace weak batteries in the remote control.

Audio Problems

There is no sound

- Adjust the volume on the remote control.
- ▶ Adjust the volume of the audio source.
- Check the audio cable connection.
- ▶ Test the source audio output with other speakers.
- ▶ Have the projector serviced.



- Check the audio cable connection.
- ▶ Test the source audio output with other speakers.
- Have the projector serviced.



Replacing the Lamp

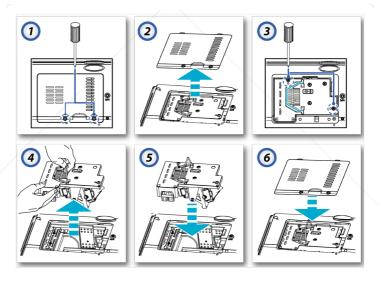
The projection lamp should be replaced when it burns out. It should only be replaced with a certified replacement part, which you can order from your local dealer.

Important:

- ▶ The lamp contains a certain amount of mercury and should be disposed of according to local ordinance regulations.
- Avoid touching the glass surface of the new lamp, doing so may shorten its operation life.

Warning:

Be sure to turn off and unplug the projector at least an hour before replacing the lamp. Failure to do so could result in a severe burn.





- 1. Loosen the two captive screws on the lamp compartment cover.
- 2. Remove the lamp compartment cover.
- 3. Remove the two screws from the lamp module.
- 4. Lift the module handle up and pull firmly on the module handle to re-move the lamp module.

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- 5. Insert the replacement lamp and push down firmly. Tighten the captive screws to hold the lamp in place.
- 6. Replace the lamp compartment lid and tighten the captive screws.

After replacing the lamp, the lamp hours counter must be reset. See page 44 for more information.





Cleaning the projector to remove dust and grime will help ensure trouble-free operation.

Warning:

- ▶ Be sure to turn off and unplug the projector at least an hour before cleaning. Failure to do so could result in a severe burn.
- Use only a dampened cloth when cleaning. Do not allow water to enter the ventilation openings on the projector.
- If a little water gets into the projector interior while cleaning, leave unplugged in a well-ventilated room for several hours before using.
- If a lot of water gets into the projector interior when cleaning, have the projector serviced.

Cleaning the Lens

You can purchase optic lens cleaner from most camera stores. Refer to the following to clean the pro-jector lens.

- 1. Apply a little optic lens cleaner to a clean soft cloth. (Do not apply the cleaner directly to the lens.)
- 2. Lightly wipe the lens in a circular motion.

Caution:

- Do not use abrasive cleaners or solvents.
- To prevent discoloration or fading, avoid getting cleaner on the projector case.

Cleaning the Case

Refer to the following to clean the projector case.

- 1. Wipe off dust with a clean dampened cloth.
- 2. Moisten the cloth with warm water and mild detergent (such as used to wash dishes), and then wipe the case.
- 3. Rinse all detergent from the cloth and wipe the projector again.

Caution:

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



Compatibility Modes

Computer Compatibility

| Signal | Resolution | Refresh Rate (Hz) | |
|-----------------|-------------|---------------------------|--|
| NTSC | - | 60 | |
| PAL/SECAM | - | 50 | |
| VESA | 640 x 350 | 70.1/ 85.1 | |
| | 640 x 400 | 70.1 / 85.1 | |
| | 720 x 350 | 70 | |
| | 720 x 400 | 70/ 85/ 88 | |
| | 720 x 576 | 50/60 | |
| VGA | 640 x 480 | 60/ 67/ 72.8/ 75/ 85 | |
| SVGA | 800 x 600 | 56.3/60.3/75/72.2/80/85.1 | |
| | 832 x 624 | 72/ 75 | |
| | 1024 x 576 | 50/60 | |
| XGA | 1024 x 768 | 60/70.1/72/75/85/87 | |
| / | 1152 x 864 | 60/ 70/ 75/85/ 75 | |
| HD720 | 1280 x 720 | 50/ 60/ 75/ 85 | |
| WXGA | 1280 x 768 | 60/70/75/85 | |
| WXGA-800 | 1280 x 800 | 60 | |
| SXGA | 1280 x 1024 | 60/ 75/85 | |
| SXGA+ | 1400 x 1050 | 60 | |
| UXGA | 1600 x 1200 | 60 | |
| | 1600 x 1050 | 60 | |
| HD1080 | 1920 x 1080 | 24/ 50/ 60/75 | |
| WUXGA | 1920 x 1200 | 60/ 75 | |
| Apple Macintosh | 640 x 480 | 66.7 | |
| | 832 x 624 | 74.5 | |
| Merchan | 1024 x 768 | 74.9 | |
| | | | |



| Signal | Resolution | Refresh Rate (Hz) |
|--------|--------------|-------------------|
| HDTV | 1920 x 1080i | 50/60 |
| | 1920 x 1080p | 50/60 |
| | 1280 x 720p | 50/60 |
| SDTV | 720 x 576i | 50 |
| | 720 x 576p | 50 |
| | 720 x 480i | 60 |
| | 720 x 480p | 60 |

Apple Mac Compatibility

| Resolution | | Macbook | Macbook Pro (Intel) | Power Mac G5 | Power Mac G4 |
|------------|-------|---------|------------------------|-----------------|-----------------|
| | Hz- | Analog | Analog | Analog | Analog |
| 800x600 | 60 | 0 | 0 | - | - |
| 800x600 | 72 | 0 | О | О | О |
| 800x600 | 75 | О | О | 0 | О |
| 800x600 | 85 | 0 | 0 | 0 | О |
| 1024x768 | 60 | 0 | 0 | 0 | О |
| 1024x768 | 70 | 0 | 0 | 0 | О |
| 1024x768 | 75 | О | О | 0 | О |
| 1024x768 | 85 | 0 | 0 | 0 | О |
| 1280x720 | 60 | 0 | 0 | 0 | О |
| 1280x720 | 75 | 0 | 0 | - | О |
| 1280x720 | 85 | 0 | 0 | - | О |
| 1280x768 | 60 | 0 | 0 | - | О |
| 1280x768 | 75 | 0 | О | 0 | О |
| 1280x768 | 85 | О | О | - | О |
| 1280x800 | 60 | О | 0 | 0 | О |
| 1280x1024 | 60 | nt.c | 0mo (8) | 00028 | 31-88(|
| 1280x1024 | 975 P | ROJECT | OR LAMPS I | and acce | SSORIES |
| 1680x1050 | 60 | 0 | 0 | - | - |

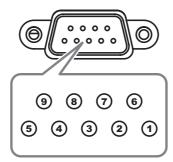


1920x1200

60

RS232 Commands

RS232 VGA-In Connector



| Pin No | Specification |
|--------|---------------|
| 1 | N/A |
| 2 | RXD |
| 3 | TXD |
| 4 | DRT |
| 5 | GND |
| 6 | DSR |
| 7 | RTS |
| 8 | CTS |
| 9 | N/A |



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Note: There is a <CR> after all ASCII commands

RS232 Protocol Function List

RS232 Commands

Send to Projector

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

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

| | | | 0D is the HEX code for <cr> in ASCII code</cr> |
|----------------|-------------------------|----------|--|
| 232 ASCII Code | HEX Code | Function | Description |
| 373700.1 | #F 20 20 20 20 20 21 0D | D ON | |

| 232 ASCII Code | HEA Code | Function | | Description |
|--------------------|--|-------------------------|---------------|--|
| ~XX00 1 | 7E 30 30 30 30 20 31 0D | Power ON | | |
| -XX00 1 | 7E 30 30 30 30 20 31 0D | Power OFF | | |
| 76.100 2 | 72 30 30 30 30 20 32 02 | 10001011 | | |
| -XX01 1 | 7E 30 30 30 31 20 31 0D | n | | |
| -XX01 1 -XX02 1 | 7E 30 30 30 31 20 31 0D | Resync AV Mute | On | |
| -XX02 1 -XX02 2 | 7E 30 30 30 32 20 31 0D | A v Mute | Off | |
| XX04 1 | 7E 30 30 30 32 20 32 0D | Freeze | Oli | |
| | | Unfreeze | | |
| XX04 2 | 7E 30 30 30 34 20 32 0D | | 0- | |
| -XX111 | 7E 30 30 31 31 20 31 0D | IR Function | On Off | |
| XX11 2 | 7E 30 30 31 31 20 32 0D | | VGA | |
| -XX12 5 | 7E 30 30 31 32 20 35 0D | | | |
| XX12 7 | 7E 30 30 31 32 20 37 0D | Direct Source Selection | VGA SCART | |
| XX12 8 | 7E 30 30 31 32 20 38 0D | | VGA 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 | |
| -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 | | User 1 | |
| -XX20 6 | 7E 30 30 32 30 20 36 0D | | User 2 | |
| -XX21 n | 7E 30 30 32 31 20 a 0D | Brightness | <u> </u> | n= -50 (a=2D 35 30) - +50 (a=35 30) |
| -XX22 n | 7E 30 30 32 32 20 a 0D | Contrast | | n= -50 (a=2D 35 30) - +50 (a=35 30) |
| -XX23 n | 7E 30 30 32 33 20 a 0D | Sharpness | | n= -15 (a=2D 31 35) - +15 (a=31 35) |
| -XX44 n | 7E 30 30 34 34 20 a 0D | Saturation | | n= -50 (a=2D 35 30) - +50 (a=35 30) |
| -XX45 n | 7E 30 30 34 35 20 a 0D | Tint | | n= -50 (a=2D 35 30) - +50 (a=35 30) n= -50 (a=2D 35 30) - +50 (a=35 30) |
| | | | | |
| -XX24 n | 7E 30 30 32 34 20 a 0D | Color | 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 | White Peaking | | 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 | Degamma | Video | |
| -XX35 3 | 7E 30 30 33 35 20 33 0D | | Graphics | |
| -XX35 4 | 7E 30 30 33 35 20 34 0D | | PC | |
| 77774 | #F 20 20 22 24 20 21 0D | | | |
| -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 | |
| -XX39 5 | 7E 30 30 33 39 20 35 0D | Input Source | VGA 1 | |
| -XX39 9 | 7E 30 30 33 39 20 39 0D | - | S-Video | |
| -XX39 10 | 7E 30 30 33 39 20 31 30 0D | | Video | |
| -XX40 1 | 7E 30 30 34 30 20 31 0D | De-interlace | On | |
| -XX40 2 | 7E 30 30 34 30 20 32 0D | | Off | |
| -XX60 1 | 7E 30 30 36 30 20 31 0D | Format | 4:3 | |
| -XX60 1 | 7E 30 30 36 30 20 31 0D | | 16:9-1 | |
| -XX60 2 -XX60 3 | 7E 30 30 36 30 20 32 0D | | 16:9-II | |
| -XX60 5 | 7E 30 30 36 30 20 35 0D | | Natvie | |
| -XX60 5 -XX60 7 | 7E 30 30 36 30 20 35 0D 7E 30 30 36 30 20 37 0D | | Auto | |
| | | | | |
| -XX61 n | 7E 30 30 36 31 20 a 0D | Overscan | 1000 | n= 0 (a=30) = 10 (a=31 30) |



English 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 -XX70 6 | 7E 30 30 37 30 20 35 0D | | Spanish | |
| | 7E 30 30 37 30 20 36 0D | | Portuguese | |
| -XX70 7 -XX70 8 | 7E 30 30 37 30 20 37 0D 7E 30 30 37 30 20 38 0D | | Polish Dutch | |
| -XX70 8 -XX70 9 | 7E 30 30 37 30 20 38 0D | | Swedish | |
| -XX/09 -XX7010 | | | | |
| XX70 10 XX70 11 | 7E 30 30 37 30 20 31 30 0D 7E 30 30 37 30 20 31 31 0D | | Norwegian/Danish Finnish | |
| XX70 11 XX70 12 | 7E 30 30 37 30 20 31 31 0D | | rinnisn Greek | |
| | | | | |
| XX70 13 XX70 14 | 7E 30 30 37 30 20 31 33 0D | | Traditional Chinese | |
| XX70 14 XX70 15 | 7E 30 30 37 30 20 31 34 0D 7E 30 30 37 30 20 31 35 0D | | Simplified Chinese Japanese | |
| XX70 15 XX70 16 | 7E 30 30 37 30 20 31 35 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 38 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 | |
| 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 XX72 3 | 7E 30 30 37 32 20 32 0D 7E 30 30 37 32 20 33 0D | | Top Right Center | |
| XX72.4 | 7E 30 30 37 32 20 34 0D | | Bottom Left | |
| XX72 4 XX72 5 | 7E 30 30 37 32 20 34 0D 7E 30 30 37 32 20 35 0D | | Bottom Right | |
| | | | | |
| XX73 n XX74 n | 7E 30 30 37 33 20 a 0D | Signal | Frequency | n= 0 (a=30) - 31 (a=33 31) |
| CX /4 n CX 75 n | 7E 30 30 37 34 20 a 0D | | Phase | n= -5 (a=2D 35) - +5 (a=35) |
| CX 75 n CX 76 n | 7E 30 30 37 35 20 a 0D 7E 30 30 37 36 20 a 0D | | H. Position V. Position | n= -5 (a=2D 35) - +5 (a=35) n= -5 (a=2D 35) - +5 (a=35) |
| XX77 n | 7E 30 30 37 37 20 aabbcc 0D | Cit. | | Hour /Day/ Month n=hhddmm |
| XX// n | /E 30 30 3/ 3/ 20 aaoocc 0D | Security | Security Timer | hh= 0 (a=30) ~ 24 (a=32 34) dd= 0 (a=30) ~ 30 (a=33 30) mm= 0 (a=30) ~ 12 (a=31 32) |
| XX78 1 XX78 2 | 7E 30 30 37 38 20 31 0D 7E 30 30 37 38 20 32 0D | | Security Settings | Enable Disable |
| XX79 n | 7E 30 30 37 39 20 a 0D | Projector ID | | n=0 (a=30)- 99 (a=39 39) |
| XX80 1 | 7E 30 30 38 30 20 31 0D | Mute | On | |
| XX80 2 XX81 n | 7E 30 30 38 30 20 32 0D 7E 30 30 38 31 20 a 0D | Volume | Off | 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 | 2050 | User | |
| CX83 1 | 7E 30 30 38 33 20 31 0D | Logo capture | O.S.C.I | |
| | | | | |
| CX100.1 | 7F 30 30 31 30 30 20 31 0D | Source Lock | On | |
| | 7E 30 30 31 30 30 20 31 0D 7E 30 30 31 30 30 20 32 0D | Source Lock | On Off | \ |
| X100 2 | 7E 30 30 31 30 30 20 32 0D | | Off | |
| X100 2 X101 1 | 7E 30 30 31 30 30 20 32 0D 7E 30 30 31 30 31 20 31 0D | Source Lock High Altitude | Off On | |
| X100 2 X101 1 X101 2 | 7E 30 30 31 30 30 20 32 0D 7E 30 30 31 30 31 20 31 0D 7E 30 30 31 30 31 20 32 0D | High Altitude | Off On Off | |
| X100 2 X101 1 X101 2 X102 1 | 7E 30 30 31 30 30 20 32 0D 7E 30 30 31 30 31 20 31 0D 7E 30 30 31 30 31 20 32 0D 7E 30 30 31 30 32 20 31 0D | | Off On Off On | |
| X100 2 X101 1 X101 2 X102 1 X102 2 | 7E 30 30 31 30 30 20 32 0D 7E 30 30 31 30 31 20 31 0D 7E 30 30 31 30 31 20 32 0D 7E 30 30 31 30 32 20 31 0D 7E 30 30 31 30 32 20 31 0D 7E 30 30 31 30 32 20 32 0D | High Altitude Information Hide | Off On Off On Off | |
| X100 2 X101 1 X101 2 X102 1 X102 2 X103 1 | 7E 30 30 31 30 30 20 32 0D 7E 30 30 31 30 31 20 31 0D 7E 30 30 31 30 31 20 32 0D 7E 30 30 31 30 32 20 31 0D | High Altitude | Off On Off On | |
| XX100 2 XX101 1 XX101 2 XX102 1 XX102 2 XX103 1 XX103 2 XX104 1 | 7E 30 30 31 30 30 20 32 0D 7E 30 30 31 30 31 20 31 0D 7E 30 30 31 30 31 20 32 0D 7E 30 30 31 30 31 20 32 0D 7E 30 30 31 30 32 20 31 0D 7E 30 30 31 30 32 20 32 0D 7E 30 30 31 30 33 20 32 0D 7E 30 30 31 30 33 20 32 0D | High Altitude Information Hide | Off On Off On Off On Off | |
| X100 2 X101 1 XX101 2 X102 1 XX102 2 XX103 1 XX103 2 XX104 1 XX104 2 | 7E 30 30 31 30 30 20 32 0D 7E 30 30 31 30 31 20 31 0D 7E 30 30 31 30 31 20 32 0D 7E 30 30 31 30 31 20 32 0D 7E 30 30 31 30 32 20 31 0D 7E 30 30 31 30 32 20 32 0D 7E 30 30 31 30 32 20 32 0D 7E 30 30 31 30 32 20 32 0D 7E 30 30 31 30 33 20 31 0D 7E 30 30 31 30 34 20 32 0D | High Altitude Information Hide Keypad Lock | Off On Off On Off On Off Blue Black | |
| X100 2 X101 1 X101 2 X102 1 X102 2 X103 1 X103 2 X104 1 X104 2 X104 3 | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 32 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 32 0D TE 30 30 31 30 33 20 32 0D TE 30 30 31 30 33 20 32 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D | High Altitude Information Hide Keypad Lock | Off On Off On Off On Off On Off Blue Black Red | |
| X100 2 X101 1 X101 2 X102 1 X102 2 X103 1 X103 2 X104 1 X104 2 X104 3 X104 4 | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 32 0D TE 30 30 31 30 31 20 32 0D TE 30 30 31 30 32 20 32 0D TE 30 30 31 30 32 20 32 0D TE 30 30 31 30 32 20 32 0D TE 30 30 31 30 32 20 32 0D TE 30 30 31 30 33 20 32 0D TE 30 30 31 30 34 20 32 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D | High Altitude Information Hide Keypad Lock | Off On Off On Off On Off On Blue Black Red Green | |
| X100 2 X101 1 X101 2 X102 1 X102 2 X103 1 X103 2 X104 1 X104 2 X104 3 X104 4 | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 32 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 32 0D TE 30 30 31 30 33 20 32 0D TE 30 30 31 30 33 20 32 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D | High Altitude Information Hide Keypad Lock | Off On Off On Off On Off On Off Blue Black Red | |
| XX100 1 XX100 2 XX100 1 XX101 1 XX101 2 XX102 1 XX102 2 XX103 1 XX103 2 XX104 1 XX104 2 XX104 3 XX104 4 XX104 5 XX105 1 | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 34 20 31 20 0D TE 30 30 31 30 34 20 31 20 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 34 0D TE 30 30 31 30 34 20 34 0D TE 30 30 31 30 34 20 34 0D TE 30 30 31 30 34 20 35 0D | High Altitude Information Hide Keypad Lock | Off On Off On Off On Off On Blue Black Red Green | On |
| X100 2 X101 1 X101 2 X102 1 X102 2 X103 1 X103 2 X104 1 X104 2 X104 3 X104 5 X104 5 X105 1 X105 2 | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 32 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 50 33 10 D | High Altitude Information Hide Keypad Lock Background Color | Off On Off On Off On Off On Off Blue Black Red Green White Direct Power On | Off |
| X100 2 X101 1 X101 2 X102 1 X102 2 X102 1 X103 2 X103 1 X103 2 X104 1 X104 2 X104 3 X104 4 X104 5 X105 1 X105 1 X105 1 X105 n | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 00 31 0D TE 30 30 31 30 31 00 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 32 0D TE 30 30 31 30 34 20 32 0D TE 30 30 31 30 35 20 32 0D TE 30 30 31 30 35 20 32 0D TE 30 30 31 30 35 20 32 0D | High Altitude Information Hide Keypad Lock Background Color | Off On Off On Off On Off On Off Blue Black Red Green White Direct Power On Auto Power Off (min) | Off n=0 (a=30)-120 (a=31 32 30) (multiple |
| XX100 2 XX101 1 XX101 1 XX101 2 XX102 1 XX102 1 XX102 2 XX103 1 XX103 2 XX104 1 XX104 2 XX104 3 XX104 4 XX104 5 XX105 1 XX105 1 XX105 2 XX106 n XX107 n | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 03 10 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 20 31 TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 34 20 32 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 32 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 36 20 a 0D TE 30 30 31 30 36 20 a 0D | High Altitude Information Hide Keypad Lock Background Color Advanced | Off On Off On Off On Off Of On Off Of Of Of Direct Power On Auto Power Off (min) Sleep Timer (min) | |
| XX100 2 XX101 1 XX101 2 XX102 1 XX102 2 XX102 2 XX103 1 XX103 2 XX104 1 XX104 2 XX104 3 XX104 4 XX104 5 XX105 1 XX105 1 XX105 1 XX107 n XX108 1 | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 32 20 3D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 33 10 0D TE 30 30 31 30 34 20 33 10 0D TE 30 30 31 30 34 20 33 10 0D TE 30 30 31 30 34 20 33 10 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 32 0D TE 30 30 31 30 35 20 32 0D TE 30 30 31 30 35 20 33 10 0D TE 30 30 31 30 37 20 a 0D TE 30 30 31 30 37 20 a 0D | High Altitude Information Hide Keypad Lock Background Color | Off On Off On Off On Off On Off On Off Blue Black Red Green White Direct Power On Auto Power Off (min) Sleep Timer (min) Lamp Hour | Off n=0 (a=30)-120 (a=31 32 30) (multiple n=0 (a=30)-900 (a=39 30 30) (multiple |
| XX100 2 XX101 1 XX101 2 XX102 1 XX102 2 XX102 2 XX103 3 XX103 2 XX104 1 XX104 2 XX104 3 XX104 4 XX104 5 XX105 1 XX105 1 XX105 1 XX105 0 XX106 n | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 20 31 TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 34 20 32 0D TE 30 30 31 30 34 20 32 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 34 0D TE 30 30 31 30 34 20 34 0D TE 30 30 31 30 34 20 34 0D TE 30 30 31 30 34 20 34 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 39 20 31 0D | High Altitude Information Hide Keypad Lock Background Color Advanced | Off On Off On Off On Off Of On Off Of Of Of Direct Power On Auto Power Off (min) Sleep Timer (min) | Off n=0 (a=30)-120 (a=31 32 30) (multiple n=0 (a=30)-900 (a=39 30 30) (multiple On |
| X100 2 X100 1 X101 1 X101 1 X101 2 X102 2 X102 2 X103 1 X103 2 X104 1 X104 2 X104 3 X104 4 X104 5 X105 1 X105 2 X106 n X107 n X107 n | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 32 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 31 0D TE 30 30 31 30 34 20 33 10 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 37 20 3 0D TE 30 30 31 30 37 20 3 0D TE 30 30 31 30 37 20 3 0D TE 30 30 31 30 37 20 3 0D | High Altitude Information Hide Keypad Lock Background Color Advanced | Off On Off On Off On Off On Off Blue Black Red Green White Direct Power On Auto Power Off (min) Lamp Hour Lamp Reminder | Off n=0 (a=30)-120 (a=31 32 30) (multiple n=0 (a=30)-900 (a=39 30 30) (multiple On Off |
| X100 2 X100 1 X101 1 X101 2 X102 1 X102 2 X103 1 X104 2 X104 3 X104 3 X104 4 X104 5 X105 2 X105 1 X106 1 X107 0 X108 1 X108 1 X109 1 X109 1 X109 1 | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 20 31 TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 34 20 32 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 34 0D TE 30 30 31 30 34 20 34 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 30 0D TE 30 30 31 30 35 20 30 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 35 20 31 0D TE 30 30 31 30 39 20 31 0D TE 30 30 31 30 39 20 31 0D TE 30 30 31 30 39 20 31 0D TE 30 30 31 30 39 20 31 0D TE 30 30 31 30 39 20 31 0D TE 30 30 31 30 39 20 31 0D TE 30 30 31 30 39 20 31 0D | High Altitude Information Hide Keypad Lock Background Color Advanced | Off On Off On Off On Off On Off On Off Blue Black Red Green White Direct Power On Auto Power Off (min) Sleep Timer (min) Lamp Hour | Off n=0 (a=30)-120 (a=31 32 30) (multiple n=0 (a=30)-900 (a=39 30 30) (multiple On Off Bright |
| X100 2 X100 1 X101 2 X101 2 X102 2 X102 2 X103 1 X104 2 X104 1 X104 2 X104 3 X104 4 X104 5 X105 2 X106 1 X107 n X108 1 X109 1 X109 1 X109 1 X109 1 X109 1 X109 1 X109 1 | TE 30 30 31 30 32 03 20 DT EE 30 30 31 30 31 00 31 DO 7E 50 30 31 30 31 20 31 DO 7E 50 30 31 30 31 20 31 DO 7E 50 30 31 30 32 20 3D DT EE 30 30 31 30 32 20 3D DT EE 30 30 31 30 32 20 31 DO TE 50 30 31 30 33 20 31 DO TE 50 30 31 30 34 20 31 DD TE 50 30 31 30 34 20 32 DD TE 50 30 31 30 34 20 32 DD TE 50 30 31 30 34 20 33 DD TE 50 30 31 30 34 20 33 DD TE 50 30 31 30 34 20 33 DD TE 50 30 31 30 34 20 33 DD TE 50 30 31 30 34 20 33 DD TE 50 30 31 30 34 20 34 DD TE 50 30 31 30 35 20 31 DD TE 50 30 31 30 35 20 32 DD TE 50 30 31 30 35 20 32 DD TE 50 30 31 30 37 20 4 DD TE 50 30 31 30 37 20 4 DD TE 50 30 31 30 37 20 4 DD TE 50 30 31 30 39 20 31 DD TE 50 30 31 30 39 20 31 DD TE 50 30 31 30 39 20 31 DD TE 50 30 31 30 39 20 31 DD TE 50 30 31 31 30 39 20 31 DD TE 50 30 31 31 30 39 20 31 DD TE 50 30 31 31 30 30 20 31 DD TE 50 30 31 31 30 30 20 31 DD TE 50 30 31 31 30 30 20 31 DD TE 50 30 31 31 30 20 31 DD TE 50 30 | High Altitude Information Hide Keypad Lock Background Color Advanced | Off On Off On Off On Off On Off Blue Black Red Green White Direct Power On Auto Power Off (min) Sleep Timer (min) Lamp Hour Lamp Reminder Brightness Mode | Off n=0 (a=30)-120 (a=31 32 30) (multiple n=0 (a=30)-900 (a=39 30 30) (multiple On Off Bright STD |
| XX100 2 XX100 1 XX101 1 XX101 2 XX102 1 XX102 2 XX102 1 XX103 2 XX104 1 XX104 2 XX104 3 XX104 4 XX104 5 XX105 1 XX105 | TE 30 30 31 30 30 20 32 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 0D TE 30 30 31 30 31 20 31 20 31 TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 32 20 31 0D TE 30 30 31 30 33 20 31 0D TE 30 30 31 30 34 20 32 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 34 20 33 0D TE 30 30 31 30 32 00 32 0D TE 30 30 31 30 32 00 32 0D TE 30 30 31 30 32 03 10 D TE 30 30 31 30 32 03 10 D TE 30 30 31 30 32 03 10 D TE 30 30 31 30 32 03 10 D TE 30 30 31 30 32 03 10 D TE 30 30 31 30 32 03 10 D TE 30 30 31 30 32 03 10 D TE 30 30 31 30 32 03 10 D TE 30 30 31 30 32 03 10 D TE 30 30 31 30 32 03 20 D TE 30 30 31 31 30 20 31 0D TE 30 30 31 31 30 20 31 0D TE 30 30 31 31 30 20 31 0D TE 30 30 31 31 30 20 31 0D | High Altitude Information Hide Keypad Lock Background Color Advanced | Off On Off On Off On Off On Off Blue Black Red Green White Direct Power On Auto Power Off (min) Lamp Hour Lamp Reminder | Off |
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SEND to Remote

-XXI.40 1 7E 90.30 31.43 90.20 31.00 Power AXI.40 3 7E 90.50 31.34 90.20 31.00 Remote Mouse Up AXI.40 3 7E 90.50 31.34 90.20 31.00 Remote Mouse Up AXI.40 5 7E 90.30 31.34 90.20 31.00 Remote Mouse Little Constitution of Texture Mouse Up AXI.40 5 7E 90.30 31.34 90.20 30 Remote Mouse Enter AXI.40 5 7E 90.30 31.34 90.20 30 00 Remote Mouse Remote Mouse Enter AXI.40 5 7E 90.30 31.34 90.20 30 00 Remote Mouse Remote Mouse Enter AXI.40 5 7E 90.30 31.34 90.20 30 00 Remote AXI.40 5 7E 90.30 31.34 90.20 30 00 Remote AXI.40 5 7E 90.30 31.34 90.20 31.34 90.20 31.34 90.20 31.34 90.20 31.34 90.20 31.34 90.20 31.34 90.34

| -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 |
| -XX140 20 | 7E 30 30 31 34 30 20 32 30 0D | Menu |
| -XX140 21 | 7E 30 30 31 34 30 20 32 31 0D | Zoom |
| -XX140 22 | 7E 30 30 31 34 30 20 32 32 0D | Contrast |
| -XX140 23 | 7E 30 30 31 34 30 20 32 33 0D | Freeze |
| -XX140 24 | 7E 30 30 31 34 30 20 32 34 0D | AV Mute |
| -XX140 25 | 7E 30 30 31 34 30 20 32 35 0D | S-Video |
| -XX140 26 | 7E 30 30 31 34 30 20 32 36 0D | VGA |
| -XX140 27 | 7E 30 30 31 34 30 20 32 37 0D | Video |

END from projector automatically

| 232 ASCII Code | HEX Code | Function | Projector Return | Description | |
|------------------|--------------------------------|----------|------------------|---|----------------------|
| | | | | | |
| when Standby/War | rming/Cooling/Out of Range/Lar | np fail | INFOn | n: 0/1/2/3/4 = Standby/Warming/Cooling/Ou | t of Range/Lamp fail |

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= None/VGA/S-Video/Video |
| -XX122 1 | 7E 30 30 31 32 32 20 31 0D | Software Version | OKaaaa | |
| -XX123 1 | 7E 30 30 31 32 33 20 31 0D | Display Mode | OKn | n: 0/1/2/3/4/5=Presentation/Bright/Movie/sRGB/User1/User2 |
| -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: 0/1/2/4/7=4:3/16:9I/16:9II/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 | OKabbbbcdddde | a: 0/1=Off/On |
| | | | | bbbb: Lamp Hour |
| | | | | c: source 0/1/2/3= None/VGA/S-Video/Video |
| | | | | dddd: FW version |
| | | | | e : Display mode 0/1/2/3/4/5=Presentation/Bright/Movie/sRGB/User1/Use |
| ~XX151.1 | 7E 30 30 31 35 31 20 31 0D | Model Name | OKn | n · 0/1=ES520/EX530 |
| -XX152 1 | 7E 30 30 31 35 32 20 31 0D | RS232 Version No | OKn | ** * ** ** ** ************************ |



Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Ceiling Installation

Ноте

Damage to the projector as a result of incorrect installation voids the warranty. To prevent damage to your projector please use the recommended mounting package for installation.

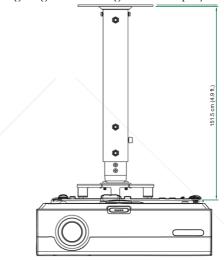
To ensure compliance, only use a UL Listed ceiling mount and screws that meet the following specifications:

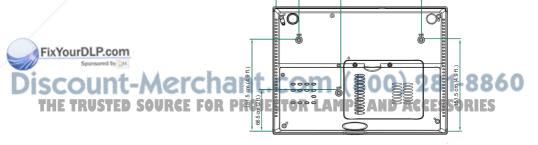
- Screw Type: M4
- Maximum screw length: 10 mm
- Minimum screw length: 7.5 mm

Refer to the following diagram to ceiling mount the projector.



- Ensure at least 10 cm clearance between the ceiling and the underside of the projector.
- Avoid locating the projector near heat sources such as air conditioning and heaters. Excess heat may cause the projector to power off.





106 cm (3.7 ft.)

Optoma Global Offices

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USA

715 Sycamore Drive Tel : 408-383-3700 Milpitas, CA 95035, USA Fax : 408-383-3702

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Japan

東京都足立 綾 3-25-18 オエス本計ビル

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79 Wing Hong Street, Fax: +852-2370-1222

Cheung Sha Wan,

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HE TRUSTED SChangning DistrictOJECTOR L.Fax: 586-21-62947375SSORIES

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 computer.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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 89/336/EEC (including amendments)
- Low Voltage Directive 73/23/EEC (amended by 93/68/EEC)
- R & TTE Directive 1999/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.





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