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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

- 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.
- 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.
- 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
- 8. See projector enclosure for safety related markings.
- 9. The unit should only be repaired by appropriate service personnel.

shock.

Precautions



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



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

■ Warning-	Do not look into the projector's lens when the
-	lamp is on. The bright light may hurt your eyes.

Warning- To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.

Warning- Please do not open or disassemble the projector as this may cause electric shock.

Warning- When replacing the lamp, please allow the unit to cool down.

WarningThis projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.

WarningReset the "Lamp Reset" function from the onscreen display "System|Lamp Setting" menu
after replacing the lamp module.

WarningWhen 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.

WarningWhen the lamp is approaching to the end of its life time, the message "Replacement suggested" will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.

Do:

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

Do not:

- Block the slots and openings on the unit provided for ventilation.
- Use abrasive cleaners, waxes or solvents to clean the unit.
- Use under the following conditions:
 - In extremely hot, cold or humid environments.
 - Ensure that the ambient room temperature is within 5°C ~ 35°C
 - ▶ Relative humidity is 10% ~ 85%
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.

Viewing 3D PROJECTOR using the 3D function

IMPORTANT SAFETY INFORMATION. READ THE FOLLOWING WARNINGS BEFORE YOU OR YOUR CHILD USE THE 3D FUNCTION.

Warning

Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised when viewing these images.

Photosensitive Seizure Warning and Other Health Risks

- Some viewers may experience an epileptic seizure or stroke when exposed to certain flashing images or lights contained in certain Projector pictures or video games. If you suffer from, or have a family history of epilepsy or strokes, please consult with a medical specialist before using the 3D function.
- Even those without a personal or family history of epilepsy or stroke may have an undiagnosed condition that can cause photosensitive epileptic seizures.

- Pregnant women, the elderly, sufferers of serious medical conditions, those who are sleep deprived or under the influence of alcohol should avoid utilizing the unit's 3D functionality.
- If you experience any of the following symptoms, stop viewing 3D pictures immediately and consult a medical specialist: (1) altered vision; (2) light-headedness; (3) dizziness; (4) involuntary movements such as eye or muscle twitching; (5) confusion; (6) nausea; (7) loss of awareness; (8) convulsions; (9) cramps; and/ or (10) disorientation. Children and teenagers may be more likely than adults to experience these symptoms. Parents should monitor their children and ask whether they are experiencing these symptoms.
- Viewing 3D PROJECTOR may also cause motion sickness, perceptual after effects, disorientation, eye strain and decreased postural stability. It is recommended that users take frequent breaks to lessen the potential of these effects. If your eyes show signs of fatigue or dryness or if you have any of the above symptoms, immediately discontinue use of this device and do not resume using it for at least thirty minutes after the symptoms have subsided.
- Watching 3D PROJECTOR while sitting too close to the screen for an extended period of time may damage your eyesight. The ideal viewing distance should be at least three times the screen height. It is recommended that the viewer's eyes are level with the screen.
- Watching 3D PROJECTOR while wearing 3D glasses for an extended period of time may cause a headache or fatigue. If you experience a headache, fatigue or dizziness, stop viewing 3D PROJECTOR and rest.
- Do not use the 3D glasses for any other purpose than for viewing 3D PROJECTOR. Wearing the 3D glasses for any other purpose (as general spectacles, sunglasses, protective goggles, etc.) may be physically harmful to you and may weaken your eyesight.
- Viewing in 3D may cause disorientation for some viewers. Accordingly, DO NOT place your 3D PROJECTOR near open stairwells, cables, balconies, or other objects that can be tripped over, run into, knocked down, broken or fallen over.

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.

Introduction

Package Overview

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







Power Cord 1.8m



Due to different applications in each Country, some regions may have different accessories.



IR Remote Control



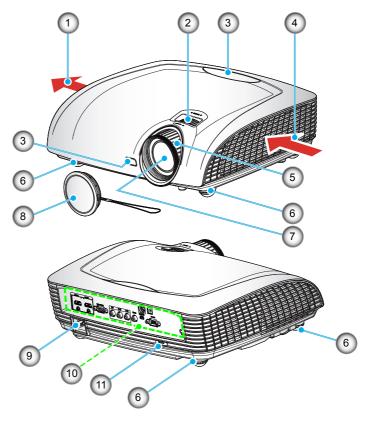
2 × AAA Batteries

Documentation:

- ☑ User's Manual
- ☑ Warranty Card
- ☑ Quick Start Card☑ WEEE Card

Introduction

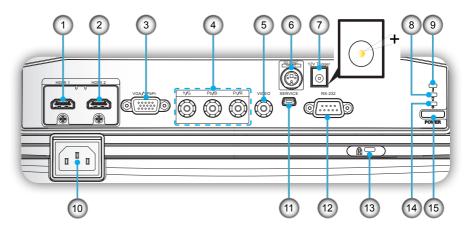
Product Overview Main Unit



- 1. Ventilation (outlet)
- 2. Focus Ring
- 3. IR Receiver
- 4. Ventilation (inlet)
- 5. Zoom Ring
- 6. Tilt-Adjustment Feet
- 7. Zoom Lens

- 8. Lens Cap
- 9. Power Socket
- 10. Input / Output Connections
- 11. Kensington™ Lock Port

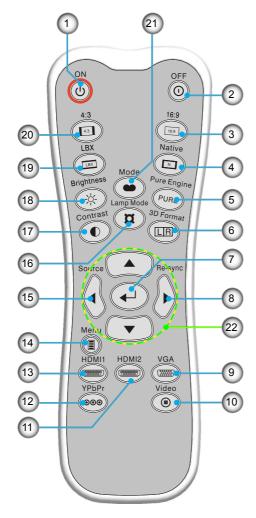
Connection Ports



- 1. HDMI1 Input Connector
- 2. HDMI2 Input Connector
- VGA-In/YPbPr Connector (PC Analog Signal/Component Video Input/HDTV/YPbPr)
- 4. Component Video Input Connector
- 5. Composite Video Input Connector
- 6. 3D Sync Out (5V) Connector
- 7. 12V Trigger Relay (12V, 250mA)
- 8. Lamp LED ¥ (Indicates the projector's lamp status)
- 9. Temp LED (Indicates the projector's temperature status)
- 10. Power Socket
- 11. USB Service
- 12. RS-232 Connector (9-pin)
- 13. Kensington™ Lock Port
- 14. Power LED **U** (Indicates the projector's status)
- 15. Power Button

Introduction

Remote Control



- 1. Power On
- 2. Power Off
- 3. 16:9
- 4. Native
- 5. PureEngine
- 6. 3D Format
- 7. Enter
- 8. Re-Sync
- 9. VGA Source
- 10. Video Source
- 11. HDMI 2 Source
- 12. YPbPr Source
- 13. HDMI 1 Source
- 14. Menu
- 15. Source
- 16. Lamp Mode
- 17. Contrast
- 18. Brightness
- 19. LBX 20. 4:3
- _---
- 21. Mode
- 22. Four Directional Select Keys

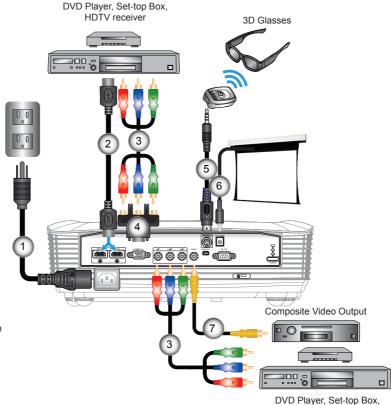
Connecting the Projector Connect to Computer/Notebook





- Due to the difference in applications for each country, some regions may have different accessories.
- * Optional Accessory
- 1. Power Cord
- 2. DVI/HDMI Cable *
- 3. VGA Cable *
- 4. USB Cable *
- 5. Emitter Cable *
- 6. 12V DC Plug *
- 7. RS232 Cable *

Connect to Video



HDTV receiver



- Due to the difference in applications for each country, some regions may have different accessories.
- 12V Trigger is programmable trigger.
- For more detailed information about connecting to the 3D emitter and 3D glasses, please refer to their user's guides.
- Use high speed HDMI cable to connect Blue-ray 3D player.
- * Optional Accessory
- 1. Power Cord
- 2. HDMI Cable *
- 3. RCA Component Cable for YPbPr *
- 4. VGA to RCA Component Cable for YPbPr *
- 5. Emitter Cable *
- 6. 12V DC Plug*
- 7. Composite Video Cable *



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

Connect to 3D Video Devices

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

PlayStation® 3 Games

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

Blu-ray 3D™ Player

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

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

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

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

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

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



If input video is normal 2D, please press "3D Format" and switch to

"Off".

If "SBS Mode" is active, 2D video content will not display correctly.



All other product names, company names and trade names used herein are for identifications purposes only and may be trademarks or registered trademarks of their respective owners. All images have been simulated.



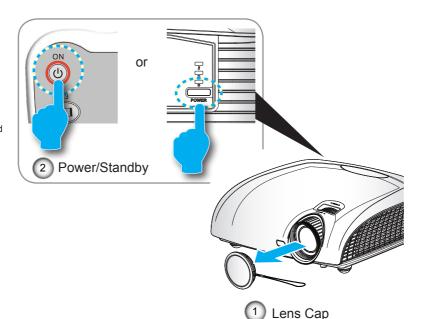
For more detailed information, please refer to 3D glasses user's guide.

Using the 3D glasses

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

Powering On/Off the Projector Powering On the Projector

- 1. Remove the lens cap. 0
- Securely connect the power cord and signal cable. When connected, the Power LED will turn red.
- 3. Turn on the lamp by pressing "POWER" button on the back of the projector or pressing "₺" button on the remote control. The Power LED will flash blue. ②
 - The startup screen will display in approximately 30 seconds. The first time you use the projector, you can select your preferred language from quick menu after the startup screen display.
- 4. Turn on your source that you want to display on the screen (computer, notebook, video player, etc). The projector will detect the source automatically and will display on the screen. If not, push menu button and go to "SETUP". Make sure that the "Source Lock" has been set to "Off".
- If you connected multiple sources at the same time, press the "SOURCE" button or direct source keys on the remote control to switch between inputs.

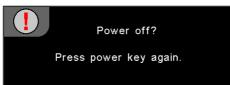




Turn on the projector first and then select the signal sources.

Powering Off the Projector

1. Press the "o" button on the remote control or "POWER" button on the back of the projector two times with one second interval to turn off the projector. First time, it will display the following message on the screen.



Press the "O" button again to confirm the shut down. If the button is not pressed, the message will disappear after 15 seconds.

- 2. The cooling fans continue to operate for about 60 seconds for cooling cycle and the Power LED will turn blue and flashing. When the lights solid red, the projector has entered standby mode. If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press "POWER" button or "" button to restart the projector.
- 3. Disconnect the power cord from the electrical outlet and from the projector.
- 4. Do not turn on the projector immediately following the power off procedure.

Warning Indicator

- When the "LAMP" indicator is lit orange, the projector will shut down automatically. Please call the nearest Optoma facility for assistance.
- When the "TEMP" indicator turns red, it indicates the projector has overheated. The projector will shut down automatically. Under normal conditions, the projector can be switched on again after it has cooled down.
- When the "TEMP" indicator flashes red, it indicates the fan has failed.
- After the projector has cooled down, you can press and hold "
 button on the remote control for 10 seconds to leave failure mode to standby mode.

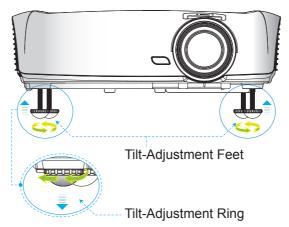


 Contact the nearest service center if the projector displays these symptoms.

Adjusting the Projected Image Adjusting the Projector's Height

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

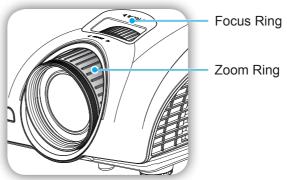
- Locate the adjustable foot you wish to modify on the underside of the projector.
- Rotate the adjustable ring clockwise to raise the projector or counter clockwise to lower it. Repeat with the remaining feet as needed.



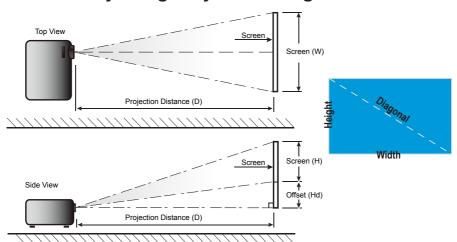
Adjusting the Projector's Zoom / Focus

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 4.92 to 32.8 feet (1.0 to 10.0 meters).



Adjusting Projection Image Size



Diagonal length	ize W x H		Projection Distance (D)			Officet (IId)				
(inch) size of	(r	n)	(fe	et)	(r	n)	(feet)		Offset (Hd)	
16:9 Screen	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(feet)
38	0.84	0.47	2.76	1.55		1.51		4.97	0.08	0.25
45	1.00	0.56	3.27	1.84	1.49	1.79	4.89	5.88	0.09	0.29
50	1.11	0.62	3.63	2.04	1.66	1.99	5.45	6.54	0.10	0.33
60	1.33	0.75	4.36	2.45	1.99	2.39	6.54	7.84	0.12	0.39
70	1.55	0.87	5.08	2.86	2.32	2.79	7.63	9.15	0.14	0.46
80	1.77	1.00	5.81	3.27	2.66	3.19	8.72	10.46	0.16	0.52
90	1.99	1.12	6.54	3.68	2.99	3.59	9.81	11.77	0.18	0.59
100	2.21	1.25	7.26	4.09	3.32	3.98	10.89	13.07	0.20	0.65
120	2.66	1.49	8.72	4.90	3.98	4.78	13.07	15.69	0.24	0.78
150	3.32	1.87	10.89	6.13	4.98	5.98	16.34	19.61	0.30	0.98
200	4.43	2.49	14.53	8.17	6.64	7.97	21.79	26.15	0.40	1.31
300	6.64	3.74	21.79	12.26	9.96		32.68		0.60	1.96



This graph is for user's reference only.

Remote Control





Using the Remote Control					
Power On	மு	Turn on the projector.			
Power Off	0	Turn off the projector.			
Lamp Mode	¤	Increase the brightness of the image.			
Mode	•	Select the display mode from Cinema, Bright, Photo, Reference, 3D, ISF Day, ISF Night and User.			
4:3	4:3	Scale the image to 4:3 aspect ratio.			
16:9	16:9	Scale the image to 16:9 aspect ratio.			
LBX	LBX	Enable the viewing of the letterboxed nonan- amorphically enhanced movie at full screen width. Part of the original image will be lost if the image aspect ratio is less than 2.35:1.			
Native	N	The input source will be displayed without scaling.			
Brightness	-\\\;-	Adjust the brightness of the image.			
Contrast	•	Control the degree of difference between the lightest and darkest parts of the picture.			
PureEngine	PURE	The PureEngine is a collection of advanced image processing technologies that enhances the quality of the displayed image.			
3D Format	LIR	Press "3D Format" to switch between "Off" and "SBS", use up/down button to switch to "Top and Bottom" or "Frame Sequential then press "Enter" to confirm.			





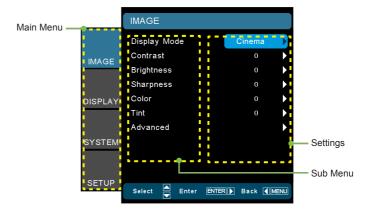
Using the Remote Control					
Enter	↓	Confirm your item selection.			
Source	•	Press "Source" to select an input signal.			
Re-sync	(b)	Automatically synchronizes the projector to the input source.			
Menu		Display or exit the on-screen display menus for projector.			
HDMI 1	('2211119)	Press "HDMI 1" to choose source from HDMI 1 connector.			
HDMI 2	(2000)	Press "HDMI 2" to choose source from HDMI 2 connector.			
VGA		Press "VGA" to choose source from VGA/YPbPr connector.			
YPbPr	000	Press "YPbPr" to choose Component Video source.			
Video	•	Press "Video" to choose Composite video source.			
Four Directional Select Keys	8.0	Use ▲ ▼ ◀▶ to select items or make adjustments to your selection.			

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

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



Menu Tree

Main Menu	Sub Menu		Settings
IMAGE	Display Mode		Cinema / Bright / Photo / Reference / 3D / ISF Day / ISF Night / User
	Contrast		-50~50
	Brightness		-50~50
	Sharpness		0~15
	*1 Color		-50~50
	#1 Tint		-50~50
	Advanced	Noise Reduction	0~10
		Gamma	Film / Video / Graphics / Standard
		PureEngine	PureDetail / PureColor / PureMotion / PureEngine Demo / Exit
		Color Settings	
		Color Temp.	Warm / Medium / High
		RGB Gain/Bias	Red Gain / Green Gain / Blue Gain / Red Bias / Green Bias / Blue Bias / Reset / Exit
		Color Space	AUTO / RGB / YUV
			*2 AUTO / RGB(0-255) / RGB(16-235) / YUV
		Exit	7.0.07.1.02(0.200)7.1.02(10.200)7.1.01
DISPLAY	Format	LAIL	*3 4:3 / 16:9 / LBX / Native
	· omat		*44:3 / SuperWide
	Zoom	-	0~10
	EdgeMask		0~5
	V Image Shift		-50~50
	V Keystone	-	-30~30
	SuperWide		Off / On (16:9) / On (2.35:1) / Auto
	3D	3D Mode	DLP-Link / VESA 3D
		3D -> 2D	3D / L / R
		3D Format	Off / SBS / Top and Bottom / Frame Sequential
		#5 3D Sync. Invert	On / Off
		Exit	
SYSTEM	Menu Location		
	Lamp Settings	Lamp Hours	
		Lamp Reminder	On / Off
		Lamp Mode	STD / Bright / Image AI
		Lamp Reset	Cancel / Yes
		Exit	
	Projection		_5
	Test Pattern	_	Off / Grid / White Pattern
	Background Color		Dark Blue / Grey / Black
	12V Trigger	-	On / Off

Main Menu	Sub Menu		Settings		
SETUP Language	Language		English / Deutsch / Français / Italiano / Español / Português / Svenska / Nederlands / Norsk/Dansk / Polski / Pyccκий / Suomi /ελληνικά / Magyar / Čeština / ェッ/繁體中文 / 简体中文 / 日本 語 / 한국어 / Türkçe / ไทย		
		HDMI 1 / HDMI 2 / Componet / VGA / Video / Exit			
	Source Lock		On / Off		
	High Altitude		On / Off		
-	Information Hide		On / Off		
	Auto Power Off (mir	n.)	0~180		
	Signal (VGA)	Frequency	0~100		
		Phase	-50~50		
		H. Position	-50~50		
		V. Position	-50~50		
		Automatic	Enable / Disable		
		Exit			
	Signal (Video)	White Level	-50~50		
_		Black Level	-50~50		
		Saturation	-50~50		
		Hue	-50~50		
		IRE	0 / 7.5		
		Exit			
	Reset	Current	Cancel / Yes		
		All	Cancel / Yes		



- Please note that the on-screen display (OSD) menus vary according to the signal type selected and the projector model you are using.
- (#1) "Color" and "Tint" are only supported in Video mode.
- (#2) For HDMI model only.

- * (#5) "3D Sync Invert" is only available when 3D is enabled.

IMAGE





"ISF Day" and "ISF Night" will not be shown when the ISF modes have not been calibrated.

Display Mode

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

- Cinema: For home theater.
- Reference: This mode is intended to reproduce, as close as possible, the image the way the movie director intended. Color, color temperature, brightness, contrast and gamma settings are all configured to standard reference levels. PureEngine Image processing is disabled.
- ▶ Photo: Optimized for displaying photographic images.
- Bright: Maximum brightness from PC input.
- 3D: Recommended setting for 3D mode enabled. Any further adjustments by the user in 3D will be saved in this mode for further use.
- ▶ ISF Day: Optimize the image with the ISF Day mode to be perfectly calibrated and high picture quality.
- ISF Night: Optimize the image with the ISF Night mode to be perfectly calibrated and high picture quality.
- User: User's settings.

Contrast

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.



 "Color" and "Tint" are only supported for composite and component sources.

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

Brightness

Adjust the brightness of the image.

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

Color

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

- ▶ Press the to decrease the color saturation in the image.
- Press the ► to increase the color saturation in the image.

Tint

Adjust the color balance of red and green.

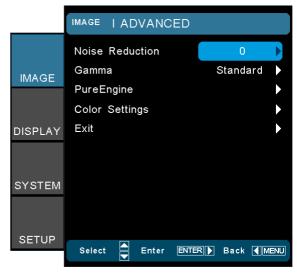
- ▶ Press the ◀ to increase the amount of green in the image.
- ▶ Press the ▶ to increase the amount of red in the image.

<u>Sharpness</u>

Adjust the sharpness of the image.

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

IMAGE | Advanced



Noise Reduction

The Noise Reduction reduces the amount of visible noise interlaced signals. The range is from "0" to "10". (0: Off)

Gamma

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

- Film: for home theater.
- Video: for video or TV source.
- Standard: for standardized setting.
- Graphics: for image source.

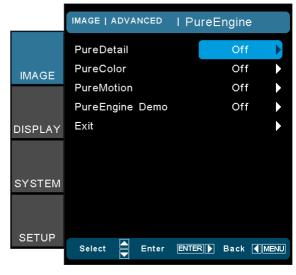
<u>PureEngine</u>

The PureEngine is a collection of advanced image processing technologies that enhances the quality of the displayed image.

Color Settings

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

IMAGE | Advanced | PureEngine



PureDetail

PureDetail is an edge enhancement tool that enables the edges in the projected image is be enhanced thus providing more perceived detail.

<u>PureColor</u>

This adjustable item utilizes a new color-processing algorithm and enhancements to enable the picture's vividness to be significantly increased. The range is from "0" to "5".

PureMotion

PureMotion uses sophisticated algorithms to ensure that the natural motion in the image is preserved.

PureEngine Demo

This feature enables you to see the difference in the image quality between the raw unprocessed image and the image processed as processed by the PureEngine. Use this mode to check the adjustments that you make to the PureEngine settings.



While the input source is 120Hz timing, the Pure-Motion function does not support this timing and will be gray out.

IMAGE | Advanced | Color Settings



Color Temperature

If set to cold temperature, the image looks more blue. (cold image)

If set to warm temperature, the image looks more red. (warm image)

RGB Gain/Bias

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

- ▶ Use ◀ or ▶ to select Red, Green, or Blue for brightness (Gain) and contrast (Bias).
- Reset: Choose "Yes" to return the factory default settings for color adjustments.





Color Space

Select an appropriate color matrix type from AUTO, RGB, RGB(0-255)^(*) RGB(16-235)^(*) or YUV.

DISPLAY



Format

Use this function to choose your desired aspect ratio.

- ▶ 4:3: This format is for 4x3 input sources.
- ▶ 16:9: This format is for 16x9 input sources, like HDTV and DVD enhanced for Widescreen TV.
- ▶ LBX: This format is for non-16x9, letterbox source and for users who use external anamorphic lens to display 2.35:1 aspect ratio using full resolution.
- Native: This format displays the original image without scaling.
- ▶ AUTO: Automatically selects the appropriate display format. Detail informations about LBX mode:
- Some Letter-Box Format DVDs are not enhanced for 16x9
 TVs. In this situation, the image will not look right when displayed in 16:9 mode. In this situation, please try to using the
 4:3 mode to view the DVD. If the content is not 4:3, there will
 be black bars around the image in 16:9 display. For this type
 of content, you can use LBX mode to fill the image on the 16:9
 display.
- If you use an external anamorphic lens, this LBX mode also allows you to watch a 2.35:1 content (include Anamorphic DVD and HDTV film source) that support anamorphic wide is enhanced for 16x9 Display in a wide 2.35:1 image. In this case, there are no black bars. Lamp power and vertical resolution are fully utilized.

16:9 Screen	480i/p	576i/p	1080i/p	720p	PC		
4:3		1440 x 1080 center					
16:9			1920 x 1080 d	center			
LBX	1920 >	1920 x 1440 center, then get the central 1920 x 1080 image to display					
Native	No resize image, 1:1 mapping and centered. This format shows original image without scaling.						
Auto If this format is select, Screen type will auto become 16:			080 080				

Zoom

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

Edge Mask

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

V Image Shift

Shift the projected image position vertically.

V Keystone

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

SuperWide

SuperWide is a feature that uses a special 2.0:1 aspect ratio screen enabling both 16:9 and 2.35:1 aspect ratio movies to be shown without black bars at the top and bottom of the screen.

- Off: Your desired aspect ratio can be selected 4:3, 16:9, LBX and Native.
- Auto: To solve the differences of the film formats, the option can keep the format in the same ratio.
- On (16:9): Only 16:9 format can be selected.
- ▶ On (2.35:1) Only 2.35:1 format can be selected.

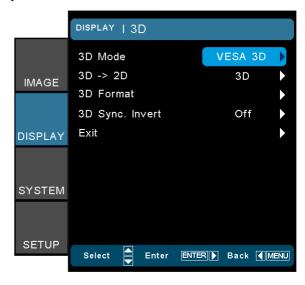
<u>3D</u>

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



- "SuperWide" is Off" as default.
- How to use "Super-Wide":
 - 1. Obtain a 2.0:1 aspect ratio screen.
 - Switch Super-Wide ON.
 - 3. Align the projector image correctly on the screen.
 - 4. Enjoy movies without black bars.

DISPLAY | 3D



3D Mode

- DLP Link: Select "DLP Link" to use optimized settings for DLP Link 3D Glasses. (please refer to page 15).
- VESA 3D: Select "VESA 3D" to use optimized setting for VESA 3D Glasses. (please refer to page 13).

3D -> 2D

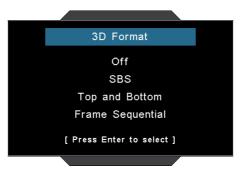
- > 3D: Display 3D signal.
- L (Left): Display the left frame of 3D content.
- R (Right): Display the right frame of 3D content.

3D Format

- Off: Press the "Off" to disable 3D format conversion.
- ▶ SBS: Display 3D signal in "Side-by-Side" format.
- ▶ Top and Bottom: Display 3D signal in "Top and Bottom" format.
- Frame Sequential: Display 3D signal in "Frame Sequential" format.



- "3D Format" is only supported on non-HDMI 1.4a 3D timing.
- Press "Enter" to select 3D format.





"3D sync. Invert" function wouldn't save the setting. It will set to "Off" when powers on and changes source.

3D Sync. Invert

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

SYSTEM





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

Menu Location

Choose the menu location on the display screen.

Lamp Setting

Press \blacktriangleright into the next menu and then use \blacktriangle or \blacktriangledown to select item.

Projection

Front-Projection

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

Rear-Desktop

When selected, the image will appear reversed.

Front-Ceiling

When selected, the image will turn upside down.

Rear-Ceiling

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

Test Pattern

Display a test pattern. There are Grid, White and Off.





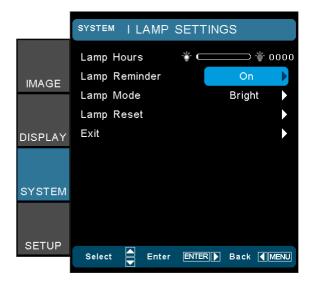
Background Color

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

12V Trigger

- Press the "Off" to disable the trigger.
- Press the "On" to enable the trigger and the programmable sub-menu. The sub-menu is accessed by selecting the "On" option then pressing the "Enter" button on the remote control. Checking an option in the sub-menu will activate the trigger when the corresponding display mode is selected. For the example, 4:3 has been selected this means that Trigger B will be active when the projector display mode is set to 4:3. The trigger will be inactive for all the other display mode options.

SYSTEM | Lamp Settings



Lamp Hour

Display the cumulative lamp operating 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 up 30 hours before suggested replacement of lamp.

Lamp Mode

- ▶ Bright: Choose "Bright" to increase the brightness.
- STD: Choose "STD" to dim the projector lamp which will lower power consumption and extend the lamp life.
- Image AI Image AI improves the contrast of the picture by optimizing the brightness of the lamp according to the picture content.

Lamp Reset

Reset the lamp life hour after replacing the lamp.



 "Lamp Mode" can be indipendently set for 2D and 3D.

SETUP



Language

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



Input Source

Use this option to enable / disable input sources. Press ▶ into the next menu and then use ▲ or ▼ to select item. Press "Select (Enter)" to finalize the selection. The projector will not search inputs that are de-selected.



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

Choose "On" to turn on High Altitude mode. Operates the fans at full speed continuously to allow for proper high altitude cooling of the projector.

Information Hide

- Press "On" to hide the info message.
- Press "Off" to show the "searching" message.

Auto Power Off

Set the interval of power-off of the system, if there is no signal input. (In minutes).

Signal

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

Reset

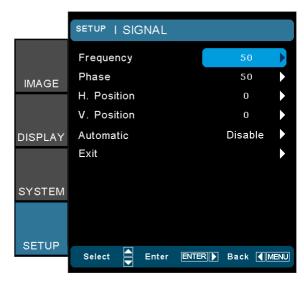
Return the adjustments and settings to factory default values.

- Current: Reset current signal's settings to factory default values.
- All: Return the settings for all menus to factory default values.





SETUP | Signal -RGB Source





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

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.

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.

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.

Automatic

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

SETUP | Signal -Video Source





- "Signal" is not supported when the source is HDMI or DVI-D.
- "IRE" is only supported on NTSC signal.

White Level

Allow user adjust White Level when inputting S-Video or Video/ CVBS signals.

Black Level

Allow user adjust Black Level when inputting S-Video or Video/ CVBS signals.

Saturation

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

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

<u>Hue</u>

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.

IRE

Adjust measurement of composite video signals.

Troubleshooting

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

Image Problems

No image appears on-screen

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

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 4.9 to 32.8 feet (1.5 to 10.0 meters) from the projector.

The image is stretched when displaying 16:9 DVD title

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

Image is too small or too large

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

Image has slanted sides:

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

Image is reversed

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

Plurry double image

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

Two images, side-by-side format

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

Image does not display in 3D

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

Other Problems

The projector stops responding to all controls

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

Lamp burns out or makes a popping sound

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

Remote Control Problems

If the remote control does not work

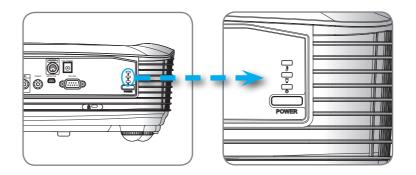
- Check the operating angle of the remote control is within ±15° both horizontally and vertically of on of the IR receivers on the projector.
- Make sure there are not any obstructions between the remote control and the projector. Move to within 6 m (20 ft) of the projector.
- Make sure batteries are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

LED Lighting Messages



- Power LED on: No signal; OSD menu appears and signal had been detected.
- Power LED off: Signal had been detected but OSD menu disappears.

Message	Power LED (Red)	Power LED (Blue)	Temp LED (Red)	Lamp LED (Orange)
Standby State (Input power cord)	Steady light	Off	Off	Off
Power on (Warming)	Off	Flashing	Off	Off
Power on and Lamp lighting	Off	Steady light *	Off	Off
Power off (Cooling)	Off	Flashing	Off	Off
Error (Lamp fail)	Flashing	Off	Off	Steady light
Error (Fan fail)	Flashing	Off	Flashing	Off
Error (Over Temp.)	Flashing	Off	Steady light	Off





On Screen Messages

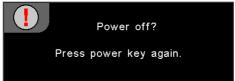
Power down timer active:



Lamp warning:



❖ Power off:



Replacing the Lamp

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



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





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



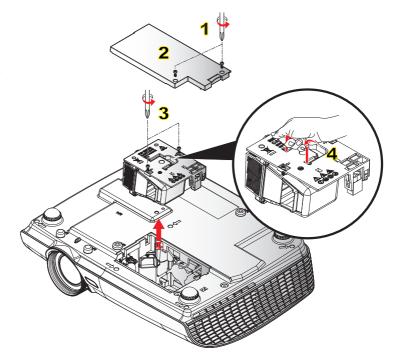
Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!



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



- 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.



- Switch off the power to the projector by pressing the Power button.
- 2. Allow the projector to cool down 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. Use a screwdriver to remove the screw from the lamp module. 3
- 7. Pull out the lamp module. 4

To replace the lamp module, reverse the previous steps.

- 8. Turn on the projector and do "Lamp Reset" after the lamp module is replaced.
 - Lamp Reset: (i)Press "Menu" -> (ii)Select "System" -> (iii)Select "Lamp Settings" -> (iv)Select "Lamp Reset" -> (v)Select "Yes".

Compatibility Modes

Computer Compatibility for PC

Signal	Resolution	Frequency H. (KHz)	Refresh Rate (Hz)	Video	Digital	Analog
NTSC	-	15.734	60	0	-	-
PAL/SECAM	-	15.625	50	0	-	-
	720 x 400	31.5	70	-	0	0
PAL/SECAIVI	720 x 400	37.9	85	-	0	0
	720 x 576		50	-	0	0
	640 x 480	31.5	60	-	0	0
	640 x 480		67	-	0	0
VGA	640 x 480	37.9	72.8	-	0	0
	640 x 480	37.5	75	-	0	0
	640 x 480	43.3	85	-		0
	800 x 600	35.2	56.3	-	0	0
	800 x 600	37.9	60.3	-	0	0
SVGA	800 x 600	46.9	75	-	0	0
	800 x 600	48.1	72.2	-	0	0
	800 x 600	53.7	85.1	-		0
	1024 x 768	48.4	60	-	0	0
XGA	1024 x 768	56.5	70.1	-	0	0
AGA	1024 x 768	60	75	-	0	0
	1024 x 768	68.7	85	-		0
	1280 x 720		50	-	0	0
HD720	1280 x 720		60	-	0	0
	1280 x 720	92.62	120	-	0	0
	1280 x 768	47.4	60	-	0	0
WXGA	1280 x 768		75	-		0
	1280 x 768		85	-		0
WXGA-800	1280 x 800		60	-	0	0
SXGA	1280 x 1024	64	60	-	0	0
SAGA	1280 x 1024	80	75	-	0	0
SXGA+	1400 x 1050		60	-	0	0
UXGA	1600 x1200	75	60	-	0	0
	1920 x 1080		24	-	0	0
HD1080	1920 x 1080		50	-	0	0
	1920 x 1080		60	-	0	0
WUXGA	1920 x 1200		60	-		0

Signal	Resolution	Frequency H. (KHz)	Refresh Rate (Hz)	Video	Digital	Analog
	1920 x 1080i		50	-	0	0
	1920 x 1080i		60	-	0	0
	1920 x 1080p		24	-	0	0
HDTV	1920 x 1080p		50	-	0	0
HDIV	1920 x 1080p		60	-	0	0
	1280 x 720	45	60	0	-	-
	1280 x 720p		50	-	0	0
	1280 x 720p		60	-	0	0
	720 x 576	31.3	50	0	-	-
	720 x 576i		50	-	0	0
SDTV	720 x 576p		50	-	0	0
3017	720 x 480	31.5	60	0	-	-
	720 x 480i		60	-	0	0
	720 x 480p		60	-	0	0

Computer Compatibility for MAC

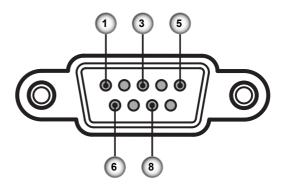
Refresh Resolution Rate		Macbook compatibility		Macbook Pro (Intel) compatibility		Power Mac G5 compatibility		Power Mac G4 compatibility	
(Hz	(Hz)	Digital	Analog	Digital	Analog	Digital	Analog	Digital	Analog
800 x 600	60	0	0	0	0	-	-	0	0
800 x 600	72	0	0	0	0	-	0	0	0
800 x 600	75	0	0	0	0	-	0	0	0
800 x 600	85	-	0	-	0	-	0	-	0
1024 x 768	60	0	0	0	0	-	0	0	0
1024 x 768	70	0	0	0	0	-	0	0	0
1024 x 768	75	0	0	0	0	-	0	0	0
1024 x 768	85	-	0	-	0	-	0	-	0
1280 x 720	60	0	0	0	0	-	0	0	0
1280 x 768	60	0	0	0	0	-	-	0	0
1280 x 768	75	-	0	-	0	-	0	-	0
1280 x 768	85	-	0	-	0	-	-	-	0
1280 x 800	60	0	0	-	0	-	0	0	0
1280 x 1024	60	0	0	-	0	-	0	0	0
1280 x 1024	75	0	0	-	0	-	0	0	0
1920 x 1080	60	0	0	-	0	-	0	0	0
1920 x 1200	60	-	0	-	0	-	0	-	0

❖ 3D Input Video Compatibility

			Input Timing		
		1280 x 720p @ 50Hz	Top-and	I-Bottom	
		1280 x 720p @ 60Hz	Top-and-Bottom		
		1280 x 720p @ 50Hz	Frame packing		
	HDMI 1.4a 3D Input	1280 x 720p @ 60Hz	Frame packing		
	input	1920 x 1080i @ 50 Hz	Side-by-Side (Half)		
		1920 x 1080i @ 60 Hz	Side-by-Side (Half)		
		1920 x 1080p @ 24 Hz	Top-and-Bottom		
		1920 x 1080p @ 24 Hz	Frame	packing	
	HDMI 1.3 3D	1920 x 1080i @ 50Hz	Side-by-Side (Half)		
Input		1920 x 1080i @ 60Hz	Side-by-Side (Half)	While 3D Format is	
Resolution		1280 x 720p @ 50Hz	Side-by-Side (Half)	"SBS"	
		1280 x 720p @ 60Hz	Side-by-Side (Half)		
	Content	1920 x 1080i @ 50Hz	Top-and-Bottom		
		1920 x 1080i @ 60Hz	Top-and-Bottom	While 3D Format is	
		1280 x 720p @ 50Hz	Top-and-Bottom	"Top and Bottom"	
		1280 x 720p @ 60Hz	Top-and-Bottom		
	2D Input (include	1024 x 768 @ 120Hz	Frame sequential	Auto apply 3D	
	HDMI/VGA port)	1024 x 768 @ 120Hz	Frame sequential	Mode	
	2D Input (include HDMI/VGA/	480i	HQFS	While 3D Format is	
	Component/ Composite port)	576i	HQFS	"Frame sequential"	



RS232 Commands and Protocol Function List RS232 Pin Assignments



Pin no.	Name	I/O (From Projector Side)
1	NC	_
2	RXD	IN
3	TXD	OUT
4	NC	_
5	GND	Signal Ground
6	NC	_
7	RTS	_
8	CTS	
9	NC	_



RS232 Protocol Function List

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

HD33

 Baud Rate
 9600

 Data Bits
 8

 Parity
 None

 Stop Bits
 1

 Flow Control
 None

 UART16550 FIFO
 Disable

Optoma Data and HT Projectors

Projector Return (Pass): P
Projector Return (Fail): F

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

Lead Code		Projector ID	X	Command	X	X	space	n variable	CR carriage retur
Lead Code		-rojecioi ib		Comman			space	valiable	Carriage retur
	Function	on	0.107			- 40-000	ASCII	Pass P	Fail F
Power Re-sync	 	 	On/Off	 	-	n=1/n=0 & 2	~XX00 n ~XX01 n	P	F
No offic		HDMI 1				n=1	~XX12 n	P	
	i	VGA 1				n=5			
Direct Source Commands	Direct Source Commands	VGA 1 Component				n=8			
Direct Source Commands	Video Component RCA				n=10 n=14				
	HDMI 2				n=15				
		Cinema				n=1	~XX20 n	P	F
		Bright				n=2			
Display Mode	i	Photo				n=3			
	Display Mode	Reference User				n=4 n=5			
	i	ISF Day				n=7			
	Í	ISF Night				n=8			
		3D				n=9			
	Contrast					n= -50 - +50	~XX22 n	P	F
	Brightness Color					n= -50 - +50 n= -50 - +50	~XX21 n ~XX45 n	P P	F
	Tint					n= -50 - +50	~XX45 n	P	
	Sharpness					n= 0 - +15	~XX23 n	P	Ė
		Noise Reduction				n= 0 - 10	~XX196 n	P	F
	Í		Film			n=1	~XX35 n	P	F
	Í	I		Curve Type		n=-7 - +7	~XX182 n		
	Í	I		Offset		n=-5 - +5	~XX183 n		
	Í	I	Video	Reset	 	n=1 n=2	~XX206 n ~XX35 n		
	Í	I	VIGEO	Curve Type		n=-7 - +7	~XX184 n	—	-
	Í	I		Offset		n=-5 - +5	~XX185 n		1
	Í	Gamma		Reset		n=1	~XX207 n		
	Í	Gallilla	Graphics			n=3	~XX35 n		
	Í	I		Curve Type Offset		n=-7 - +7	~XX186 n ~XX187 n		
	Í			Offset Reset		n=-5 - +5 n=1	~XX187 n ~XX208 n		
	Í		Standard	Reset		n=4	~XX35 n		
			Ctandard	Curve Type		n=-7 - +7	~XX188 n		
	i			Offset		n=-5 - +5	~XX189 n		
	Í			Reset		n=1	~XX209 n		
	i		PureMotion	OFF		n=0	~XX190 n		
IMAGE	Í			LOW MED		n=1 n=2	~XX190 n ~XX190 n		
	i			HIGH		n=2 n=3	~XX190 n		
	Í			120Hz		n=4	~XX190 n		
	Í		PureDetail	OFF		n=0	~XX41 n		
	Í			1		n=1	~XX41 n		
	Í			2		n=2	~XX41 n		
	Advanced	anced PureEngine	PureColor	3 OFF		n=3	~XX41 n ~XX42 n		
	i		PureColor	1		n=0 n=1	~XX42 n ~XX42 n		
	Í			2		n=2	~XX42 n		
	i			3		n=3	~XX42 n		
	Í			4		n=4	~XX42 n		
	i			5		n=5	~XX42 n		
	Í		PureEngine Demo	OFF		n=0	~XX197 n		
	Í	I		H Split V Split		n=1 n=2	~XX197 n ~XX197 n		
	Í		-	V Split Red Gain	-	n= -50 - +50	~XX197 n ~XX24 n		
	Í	I	I	Green Gain		n= -50 - +50	~XX25 n	—	-
	Í	I	I	Blue Gain		n= -50 - +50	~XX26 n		
	Í	I	RGB Gain/Bias	Red Bias		n= -50 - +50	~XX27 n		
	Í	I	I	Green Bias		n= -50 - +50 n= -50 - +50	~XX28 n ~XX29 n		
	Í	I	I	Blue Bias Reset		n= -50 - +50 n=1	~XX29 n ~XX33 n		
	Í	Color Settings / RGB Gain/Bias		Warm		n=1	~XX210 n	-	
	Í		Color Temperature	Medium		n=2	~XX210 n		1
	Í	I		Cold		n=3	~XX210 n		
	Í	I		Auto		n=1	~XX37 n	P	F
	Í	I	I	RGB (0-255)*	* RGB (0-255) supports when	n=2	I		I
	ĺ	I	Color Space		HDMI is detected *RGB(16 - 235)supports when				
	Í	I	1	RGB(16 - 235)*	RGB(16 - 235)supports when HDMI is detected	n=4	I	l	I
	1	I	I	YUV		n=3	—	I	-
	1		4:3			n=1	~XX60 n	Р	F
	<u> </u>		16:9			n=2			
						n=5			
		Format	LBX						
		Format	Native			n=6			
		Format	Native Auto235			n=8			
			Native			n=8 n=9	. 9981 -		
		Edge Mask	Native Auto235			n=8 n=9 n=0-5	~XX61 n		F
		Edge Mask Zoom	Native Auto235			n=8 n=9 n=0-5 n=0-10	~XX62 n	P P	F F
DISPLAY		Edge Mask	Native Auto235 SuperWide			n=8 n=9 n=0-5	~XX61 n ~XX62 n ~XX64 n ~XX66 n	P	F F F
DISPLAY		Edge Mask Zoom V Image Shift (16:9)	Native Auto235 SuperWide	DLP Link/VESA 3D		n=8 n=9 n=0-5 n=0-10 n=-50 - +50 n=-30 - +30 n=1/n=2	~XX62 n ~XX64 n ~XX66 n ~XX230 n	P P P	F
DISPLAY		Edge Mask Zoom V Image Shift (16:9) V Keystone	Native Auto235 SuperWide	3D/L/R	2D->2D; 3D->3D / 3D->L /3D->F	n=8 n=9 n=0-5 n=0-10 n=-50 - +50 n=-30 - +30 n=1/n=2 n=1/n=2/n=3	~XX62 n ~XX64 n ~XX66 n	P P P	F
DISPLAY		Edge Mask Zoom V Image Shift (16:9)	Native Auto235 SuperWide 3D Mode 3D>2D	3D / L / R Off/SBS/Top and	2D->2D; 3D->3D / 3D->L /3D->E	n=8 n=9 n=0-5 n=0-10 n=-50-+50 n=-30-+30 n=1/n=2 n=1/n=2/n=3 n=0/n=1/	-XX62 n -XX64 n -XX66 n -XX230 n -XX400 n	P P P	F
DISPLAY		Edge Mask Zoom V Image Shift (16:9) V Keystone	Native Auto235 SuperWide 3D Mode 3D > 2D 3D Format	3D / L / R Off/SBS/Top and Bottom/Frame Sequential	2D>2D; 3D>3D / 3D>L /3D>F Decoding HDMI1:3 3D timing	n=8 n=9 n=0-5 n=0-10 n=-50 -+50 n=-30 -+30 n=1/n=2 n=1/n=2/n=3 n=0/n=1/ n=3/n-4	-XX62 n -XX64 n -XX66 n -XX230 n -XX400 n	P P P	F
DISPLAY		Edge Mask Zoom V Image Shift (16:9) V Keystone	Native Auto235 SuperWide 3D Mode 3D > 2D 3D Format 30 Sync. Invert	3D / L / R Off/SBS/Top and	2D>2D>3D>3D / 3D>L /3D>F Decoding HDMIT 3 3D timing	n=8 n=9 n=0-5 n=0-10 n=-50 - +50 n=-30 - +30 n=1/n=2 n=0/n=1 n=3/n-4 n=0/n=1	-XX62 n -XX64 n -XX66 n -XX230 n -XX400 n -XX405 n -XX231 n	P P P P	F
DISPLAY		Edge Mask Zoom V Image Shift (16.9) V Keystone	Native Auto235 SuperWide 3D Mode 3D > 2D 3D Format 3D Sync. Invert Off On (16:9)	3D / L / R Off/SBS/Top and Bottom/Frame Sequential	2D>2D; 3D>3D / 3D>L /3D>F Decoding HDMI1.3 3D timing	n=8 n=9 n=0-5 n=0-10 n=-50 -+50 n=-30 -+30 n=1/n=2 n=1/n=2/n=3 n=0/n=1/ n=3/n-4	-XX62 n -XX64 n -XX66 n -XX230 n -XX400 n	P P P	F F
DISPLAY		Edge Mask Zoom V Image Shift (16:9) V Keystone	Native Auto235 SuperWide 3D Mode 3D > 2D 3D Format 3D Sync. Invert	3D / L / R Off/SBS/Top and Bottom/Frame Sequential	2D>2D:3D>3D>L:3D>F Decoding HDM1:3 3D draing	n=8 n=9 n=0-5 n=0-10 n=-50 - +50 n=-30 - +30 n=1/n=2 n=0/n=1/ n=3/n-4 n=0/n=1 n=0	-XX62 n -XX64 n -XX66 n -XX230 n -XX400 n -XX405 n -XX231 n	P P P P	F F

Lead Code	X	Projector ID	X	Command	ID X	×	space	n variable	CR carriage return
		Top Left				n=1	~XX72 n	P	F
	Menu Location	Top Right Centre				n=2 n=3			
		Bottom Left				n=4			
		Bottom Right Lamp Hour	Lamp hour			n=5 n=1/n=2	~XX108 n	nnnn	F
	Lama Cattina	Lamp Reminder Lamp Mode	On/Off			n=1/n=0 & 2 n=1/n=2/n=3	~XX109 n ~XX110 n	P	F
	Lamp Setting	Lamp Mode Lamp Reset	Bright/STD/ Image Al Yes			n=1/n=2/n=3 n=1	~XX110 n ~XX111 n	P	F
SYSTEM			No			n=2	~XX71 n	Р	
		Front-Desktop Rear-Desktop				n=1 n=2	~XX/1 ft	-	
	Projection	Rear-Desktop Front-Ceiling Rear-Ceiling				n=3			
	Test Pattern		Off / Grid / White			n=4 n=0/n=1/n=2	~XX195 n		
		Blue Black				n=1 n=2	~XX104 n	P	F
	Background Color	Black Grey				n=2 n=6		-	l
	12v Trigger		OffiOn			n=0/n=1	~XX192 n		
		English German				n=1 n=2	~XX70 n	P	F
		French				n=3			
		Italian Spanish				n=4 n=5			
		Portuguese				n=6		-	-
		Polish				n=7			
		Dutch Swedish				n=8 n=9		-	l
		Norwegian/Danish				n=10			
	Language	Finnish				n=11			
		Greek Traditional Chinese				n=12 n=13			
	1	Simplified Chinese	-			n=14			
		Japanese Korean	<u> </u>			n=15 n=16	-	 	
		Russian Hungarian				n=17 n=18			
		Hungarian Czech				n=18 n=19			<u> </u>
	1	Arabic				n=20			
	1	Thai Turkish				n=21 n=22			-
SETUP		HDMI 1 HDMI 2				n=22 n=1 n=7	~XX39 n	P	F
	Input Source	HDMI 2				n=7			
	Input Source	VGA 3 x RCA Comnponent				n=5 n=8			
		Video				n=10			
	Source Lock High Altitude		On/Off On/Off			n=1/n=0 & 2 n=1/n=0 & 2	~XX100 n ~XX101 n ~XX102 n	P P	F
	Information Hide		On/Off			n=1/n=0 & 2	~XX10111	P	F
	Auto Power Off (min)					n=0-180	~XX106 n	P	E
		Automatic Frequency/Tracking	Enable/Disable			n=1/n=0 n=0~ 100	~XX91 n ~XX73 n	Р	-
		Phase				n= -50 - +50	~XX74 n	P	F
		H. Position				n= -50 - +50 n= -50 - +50	~XX76 n ~XX76 n	P	E
	Signal	V. Position White level				n=-50-+50	~XX76 n	P	-
		White level Black level				n=-50-+50 n=-50-+50	~XX200 n ~XX201 n		
		Saturation				n=-50-+50 n=-50-+50	~XX202 n		
		Hue IRE	0 IRE / 7.5 IRE			n=1/n=0	~XX203 n ~XX204 n		
	Reset		Yes			n=1	~XX112 n	Р	F
	Reset		No			n=2		<u> </u>	
Projector ID						n = 00 - 99	~XX79 n	P	F
Reset System Alert Information from Projector Automatically						n=1	~XX99 n	P	F
when:	Standby Mode					a=0		INFOa	
	Warming up					a=1		INFOa INFOa	
	Cooling Down Out of Range					a=2 a=3		INFOa INFOa	
	Lamp Fail Thermal Switch Error					a=4			
	Fan Lock					a=5 a=6			
	Over Temperature					a=7 a=8			
	Lamp Hours Running Out								
READ/Return Information from projector									
·	Information								
		a = Power State	Office			n=1	~XX150 n	Okabbbbccdddde	
		a = Power State b = Lamp Hour	OffiOn			n=1 a=0/1 bbbb	~XX150 n	Okabbbbccddddd	
		a = Power State b = Lamp Hour c = Input Source Commands	None			n=1 a=0/1 bbbb c=00	~XX150 n	Dkabbbbccddddd	
		b = Lamp Hour	None VGA			n=1 a=0/1 bbbb c=00	~XX150 n	Dkabbbbccddddd	
		b = Lamp Hour	None VGA Video HDMI1			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07	~XX150 n	Dkabbbbccddddd	
		b = Lamp Hour c = Input Source Commands	None VGA Video HDMI1 HDMI2			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07	~XX150 n	Dkabbbbccddddd	
		b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component			n=1 s=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11	-XX150 n	Dkabbbbccddddd	
		b = Lamp Hour c = Input Source Commands	None VGA Video HDMI1 HDMI2 Component			n=1 s=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11	-XX150 n	Dkabbbbccddddd	
		b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component None Cinema Bright			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 dddd e=0 e=1 e=2	-XX150 n	Dkabbbbccddddd	
		b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component None Cinema Bright Movie			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 dddd e=0 e=1 e=2	-XX150 n	Dkabbbbccddddd	
		b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component None Cinema Bright Movie 4FGB			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 dddd e=0 e=1 e=2 e=3 e=4 e=6	-XX150 n	Dkabbbbccddddd	
		b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component None Cinema Bright Movie 4FGB			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 dddd e=0 e=1 e=2 e=3 e=4 e=6	-XX150 n	Dkabbbbccddddd	
		b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component None Eigen Birght Movie User(1) User(2) User(3) User(3) User(3) User(3) User(4) User(4) User(5) U			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 dddd e=0 e=1 e=1 e=2 e=3 e=4	-XX150 n	D:abbbbccddddd	
		b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component None Cinema Bright Movie sRGB User(1) User(2 SF Day			n=1 a=0/1 bbbb c=00 c=00 c=02 c=05 c=07 c=08 c=11 dddd e=0 e=1 e=2 e=3 e=4 e=5 e=6 e=7			
	Model Name	b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component None Cinema Bright Move User(1) User(1) User(2) ISF Day ISF Nigh SD			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 dddd c=0 c=1 c=2 c=3 c=6	-XX150 n	3kabbbbccddddd	a=1 H083 a=2 H0:
		b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component None Eigen Birght Movie User(1) User(2) User(3) User(3) User(3) User(3) User(4) User(4) User(5) U			n=1 a=0/1 bbbb c=00 c=02 c=02 c=07 c=08 c=11 dodd c=0 c=1 c=2 c=3 c=4 c=5 c=6 c=7 c=8 c=9 a=0/1/2	-XX151 n	Oka	a=1 HD83 a=2 HD
	Model Name R8232 Version No	b = Lamp Hour c = Input Source Commands d = Firmware Version	None VCA			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 d=0 c=1 e=1 e=2 e=3 e=4 e=5 e=6 e=7 e=8 e=9 a=0/1/2 n=1			a=1 HD83 a=2 HD
		b = Lamp Hour c = Input Source Commands d = Firmware Version	None VGA Video HDMI1 HDMI2 Component None Cinema Bright Move User(1) User(1) User(2) ISF Day ISF Nigh SD			n=1 a=0/1 bbbb c=00 c=02 c=02 c=07 c=08 c=11 dodd c=0 c=1 c=2 c=3 c=4 c=5 c=6 c=7 c=8 c=9 a=0/1/2	-XX151 n	Oka	a=1 HD83 a=2 HD3
		b = Lamp Hour c = Input Source Commands d = Firmware Version	Notes VICA VICA VICA VICA VICA VICA VICA VICA			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 d=11 d=12 d=12	-XX151 n	Oka Oka	
		1- I amp toor 1 Input Source Commands 1 Input Source Commands 1 Input Source Commands 2 - Fritmant Version 2 - Dapley mode	Notes Notes Voles Voles HOMI HOM2 Component Notes Component Signification Bright Signification Signi			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 d=0 c=1 e=1 e=2 e=3 e=4 e=5 e=6 e=7 e=8 e=9 a=0/1/2 n=1	-30(151 n	Oka	a=1 H083 a=2 H0 a=0/2/5/7/8/11
		b = Lamp Hour c = Input Source Commands d = Firmware Version	Notes VICA VICA VICA VICA VICA VICA VICA VICA			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 d=11 d=12 d=12	-XX151 n	Oka Oka	
		P - Large Volume Commands = Tripus Source Commands = Tripus Source Commands = Tripus Source Commands pgul Source Commands	Notes Notes Voles Voles HOMI HOM2 Component Notes Component Signification Bright Signification Signi			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 dd1d e=0 e=1 e=2 e=3 e=4 e=5 e=6 e=7 e=9 a=0/1/2 n=1 n=1	-30X151 n -30X152 n -30X152 n	Oka Oka Oka	a=0/2//5//7/8/11
		P - Large Volume Commands = Tripus Source Commands = Tripus Source Commands = Tripus Source Commands pgul Source Commands	Notes Notes Voles Voles HOMI HOM2 Component Notes Component Signification Bright Signification Signi			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 dd1d e=0 e=1 e=2 e=3 e=4 e=5 e=6 e=7 e=9 a=0/1/2 n=1 n=1	-30X151 n -30X152 n -30X152 n	Oka Oka Oka	a=0/2//5//7/8/11
		P - Lamp to Source Commands = Tripus Source Commands = Tripus Source Version = Display mode = Display mode paul Source Commands Software Version	Notes Notes Voles Voles HOMI HOM2 Component Notes Component Signification Bright Signification Signi			n=1 a=0/1 bbbb c=00 c=00 c=00 c=00 c=00 c=00 c=00	-30X151 n -30X152 n -30X152 n	Cka Cka Cka Cka	a=0/2//5//7/8/11
		P - Large Volume Commands = Tripus Source Commands = Tripus Source Commands = Tripus Source Commands pgul Source Commands	Notes Notes Voles Voles HOMI HOM2 Component Notes Component Signification Bright Signification Signi			n=1 a=0/1 bbbb c=00 c=02 c=05 c=07 c=08 c=11 dd1d e=0 e=1 e=2 e=3 e=4 e=5 e=6 e=7 e=9 a=0/1/2 n=1 n=1	-30X151 n -30X152 n -30X152 n	Oka Oka Oka	a=0/2//5//7/8/11
		P - Lamp to Source Commands = Tripus Source Commands = Tripus Source Version = Display mode = Display mode paul Source Commands Software Version	Nucre VGA Vdeo Vdeo Vdeo Vdeo Vdeo Vdeo Vdeo Vdeo			n=1 a=0/1 bbbb c=00 c=00 c=00 c=00 c=00 c=00 c=00	-30X151 n -30X152 n -30X152 n	Cka Cka Cka Cka	a=0/2//5//7/8/11
		P - Lamp to Source Commands = Tripus Source Commands = Tripus Source Version = Display mode = Display mode paul Source Commands Software Version	Nucre VGA Vdeo Vdeo Vdeo Vdeo Vdeo Vdeo Vdeo Vdeo			n=1 a=0/1 bbbb c=00 c=00 c=00 c=00 c=00 c=00 c=00	-3X(15) n -3X(15) n -3X(12) n -3X(12) n	Cka Cka Cka Cka	a=0/2//5//7/8/11
		P - Large Source Commands - Topal Source Commands - Topal Source Commands - Topal Source Commands - Topal Source Commands Software Version - Topal Source Commands Software Version - Display Mode	Notes Notes Video Video Video HOMH HOMM FLOWING None Component Common None Common None None Common STORY Movin STORY Movin STORY STORY STORY STORY MicComponent NormeVGAVvdeoHOMIT+RD MicComponent Common Single/Photos/Rafet encolute Fig. Day 155* Common Single/Photos Rafet			m=1 2x31 2x31 2x31 2x31 2x31 2x31 2x31 2x3	-3X(151 n -3X(152 n -3X(152 n	Oka Oka Oka Oka Oka Oka	a=0/2//5//7/8/11 a=1/2/3/4/5/7/8/9 Cinema=1 Bright=2 Photo=3 Reference=4 USF-07 ISF Night=8 3D=9
		P - Lamp to Source Commands = Tripus Source Commands = Tripus Source Version = Display mode = Display mode paul Source Commands Software Version	Nucre VGA Vdeo Vdeo Vdeo Vdeo Vdeo Vdeo Vdeo Vdeo			n=1 a=0/1 bbbb c=00 c=00 c=00 c=00 c=00 c=00 c=00	-3X(15) n -3X(15) n -3X(12) n -3X(12) n	Cka Cka Cka Cka	4000455000

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-	X				X	X		n	CR
Lead Code		Projector ID		Command ID				variable	carriage return
		Contrast				n=1	~XX126 n	Oka	
			4:3/16:9/LBX/Native/Auto23						a=1/2/5/6/8/9 for
		Format	5/SuperWide			n=1	~XX127 n	Oka	4:3/16:9/LBX/Nativ uto235/SuperWid
		Format				_	~XX12/ ft		uluzabraupei wic
							_		a=0/1/2
		Color Temperature	Warm/Medium/Cold			n=1	~XX128 n	Oka	a=0/1/2 Warm/Medium/Co
		Color Temperature				+	~XX128 ft		wainivwedidiisCi
		1				+			
			Front Dooldon Door						a=0/1/2/3 for Fro
			Front-Desktop Rear- Desktop Front-Ceiling			n=1		Oka	Desktop/Rear-Des /Front-Ceiling/Re
			Rear-Ceiling						/Front-Ceiling/Re
		Projection Mode					~XX129 n		Ceiling
	RS232 Commands for HD3	Pemote							
	ROZSZ COMMUNICION NO.	Kemote				+			+
		1				+			
rote Control							1		
		Up/Page +				n=10	~XX140 n	ı	
		Left/Source				n=11		•	
		Enter (for projection MENU)	i			n=12	1		
	1	Right/Re-SYNC	i		i	n=13	1		
		Down/Page -				n=14	1		
		Menu				n=20	1		
		Re-sync				n=41	1		
	1	1	i		1		1		
		1			1		1		
		†				1	1		

Ceiling Mount Installation

- To prevent damage to your projector, please use the Optoma ceiling mount.
- If you wish to use a third party ceiling mount kit, please ensure the screws used to attached a mount to the projector met the following specifications:

▶ Screw type: M4*3

Maximum screw length: 10mm

Minimum screw length: 7.5mm

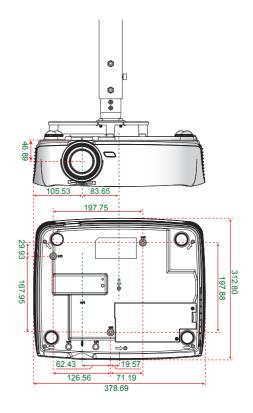


Please note that damage resulting from incorrect installation will invalidate the warranty.



Warning:

- 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 10cm gap between the ceiling and the bottom of the projector.
- 3. Avoid installing the projector near a heat source.



Optoma Global Offices

For service or support please contact your local office.

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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
- 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.