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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

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

Precautions



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

- Warning- Do not look into the projector's lens when the lamp is on. The bright light may hurt and damage your eyes.
- Warning- To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.
- Warning- Please do not open or disassemble the projector as this may cause electric shock.
- Warning- When replacing the lamp, please allow the unit to cool down. Follow instructions as described on pages 54-55.
- Warning- This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Warning- Reset the "Lamp Reset" function from the on-screen display "OPTIONS | Lamp Settings" menu after replacing the lamp module (refer to page 46).
- Warning- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down.
- Warning- Do not use lens cap when projector is in operation.
- Warning- When the lamp is approaching the end of its lifetime, the message "Lamp Warning: Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.



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 54-55.

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 40°C.
 - ▶ Relative Humidity is 5 40°C, 80% (Max.), non-condensing.
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.

Product Features

- SVGA (800x600) / XGA (1024x768) / WXGA (1280X800) Native resolution
- HD compatible 720p and 1080p supported
- BrilliantColor[™] Technology

Full 3D(*) (See page 58)

- Kensington Lock
- RS232 control

.

- Rapid shutdown
- The Product Features shall be configured by the manufacturer as per practical conditions.

- Nоте
- (*) For models with HDMI Input.
- Product features may vary depending on model.

Package Overview

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





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



- (*) The accessory depends on model's specifications.
- (*) Soft bag is an optional service part.





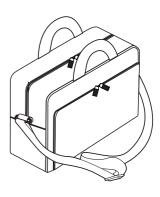


Battery

IR Remote Control

Documentation:

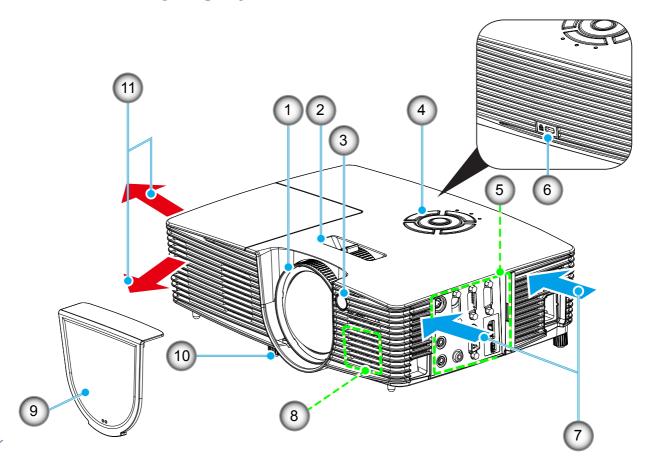
- ✓ User's Manual
- ✓ Quick Start Card



Carrying case(*)

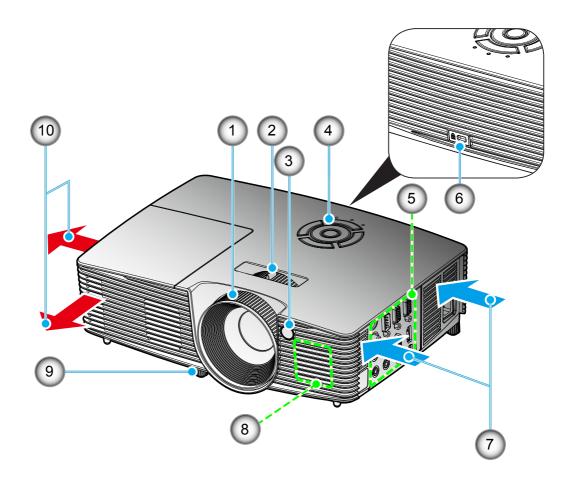
Product Overview

Main Unit





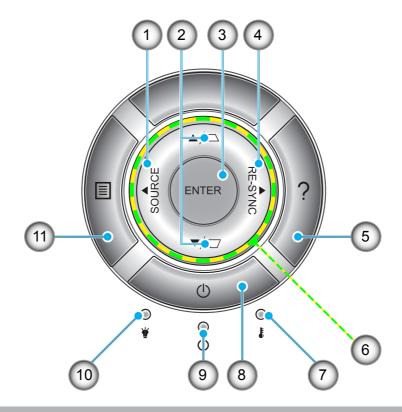
- The interface is subject to model's specifications.
- Do not block projector in/out air vents.
- (*) Lens cap comes with IN226ST/ IN227ST
- 1. Focus Ring
- 2. Zoom Lever
- 3. IR Receiver
- 4. Control Panel
- 5. Input / Output Connections
- 6. Kensington™ Lock Port
- 7. Ventilation (inlet)
- 8. Speaker
- 9. Lens Cap*
- 10. Tilt-Adjustment Feet
- 11. Ventilation (outlet)





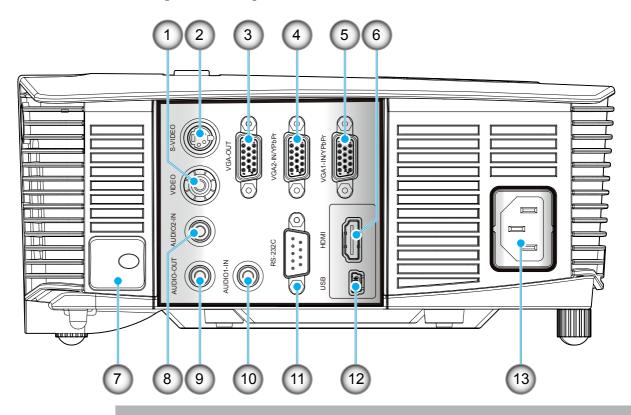
- The interface is subject to model's specifications.
- Do not block projector in/out air vents.
- 1. Focus Ring
- 2. Zoom Lever
- 3. IR Receiver
- 4. Control Panel
- 5. Input / Output Connections
- 6. Kensington™ Lock Port
- 7. Ventilation (inlet)
- 8. Speaker
- 9. Tilt-Adjustment Feet
- 10. Ventilation (outlet)

Control Panel



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

Input/Output Connections





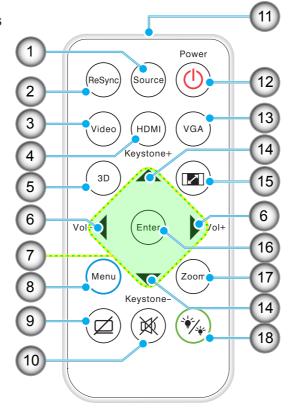
- Monitor loop through only support in VGA2-IN/ YPbPr.
- The interface is subject to model's specifications.

- 1. Composite Video Input Connector
- 2. S-Video Input Connector
- 3. VGA-Out Connector (Monitor Loop-through Output)
- 4. VGA2-IN/YPbPr Connector (PC Analog Signal/Component Video Input/HDTV/YPbPr)
- VGA1-IN/YPbPr Connector (PC Analog Signal/Component Video Input/HDTV/YPbPr)
- 6. HDMI Connector
- 7. Security Lock Slot
- 8. Audio2 Input Connector (3.5mm mini jack)
- 9. Audio Output Connector (3.5mm mini jack)
- 10. Audio1 Input Connector (3.5mm mini jack)
- 11. RS-232 Connector (9-pin)
- USB Connector (Connect to PC for Remote Mouse function/USB Service for firmware upgrade)
- 13. Power Socket

Remote Control



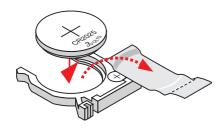
The interface is subject to model's specifications.



- 1. Source
- 2. Re-Sync
- 3. Video and S-Video
- 4. HDMI
- 5. 3D
- 6. Volume +/-
- 7. Four Directional Select Keys
- 8. Menu
- 9. AV Mute
- 10. Mute
- 11. IR LED Indicator
- 12. Power On/Off
- 13. VGA
- 14. Keystone +/-
- 15. Aspect
- 16. Enter
- 17. Zoom
- 18. Brightness Mode

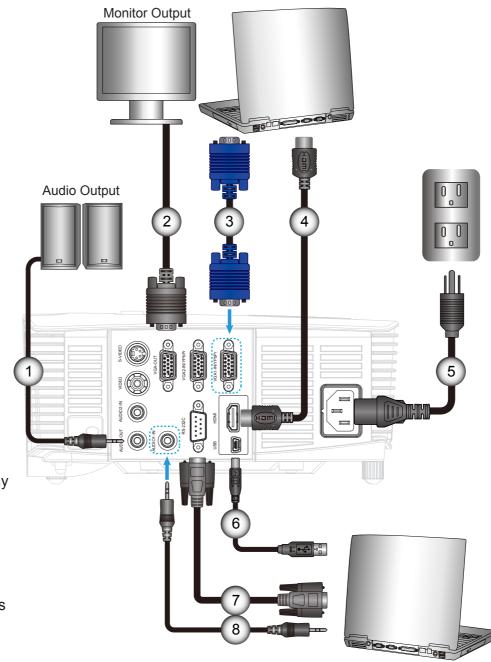


Before using the remote control for the first time, remove the transparent insulation tape. See page 19 for battery installation.



Connecting the Projector

Connect to Computer/Notebook



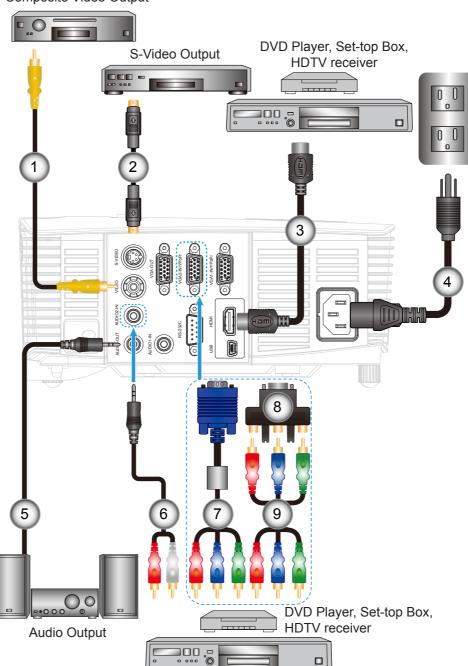


- Due to the difference in applications for each country, some regions may have different accessories.
- (*) Optional accessory
- The interface is subject to model's specifications.

1	*Audio Output Cable
2	*VGA Out Cable
3	
2	*HDMI Cable
5	Power Cord
6	*USB Cable
7	*RS232 Cable
8	

Connect to Video Sources

Composite Video Output





- Due to the difference in applications for each country, some regions may have different accessories.
- (*) Optional accessory
- The interface is subject to model's specifications.

1	*Composite Video Cable
	*S-Video Cable
3	*HDMI Cable
4	Power Cord
5	*Audio Output Cable
6	*Audio Input Cable
7	*VGA/RCA Cable
8	*15-Pin to 3 RCA Component/HDTV Adaptor
9	*3 RCA Component Cable

Powering the Projector On / Off

Powering On the Projector



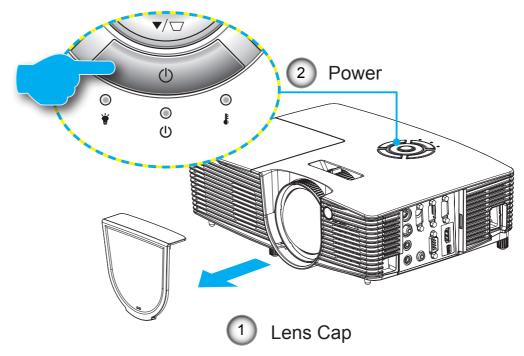
When Power mode (Standby) is set to Eco (<0.5W), the VGA output and Audio pass-through will be deactivated when the projector is in standby.

- 1. Remove the lens cap. •
- 2. Securely connect the power cord and signal cable. When connected, the ON/STANDBY LED will turn Amber.
- 3. Turn on the lamp by pressing "**U**" button either on the top of the projector or on the remote. The ON/STANDBY LED will now turn Green. **2**

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

- 4. Turn on and connect the source that you want to display on the screen (computer, notebook, video player, etc). The projector will detect the source automatically. If not, push menu button and go to "OPTIONS".

 Make sure that the "Source Lock" has been set to "Off".
- If you connect multiple sources at the same time, press the "SOURCE" button on the control panel or direct source keys on the remote control to switch between inputs.





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

Powering On the Projector



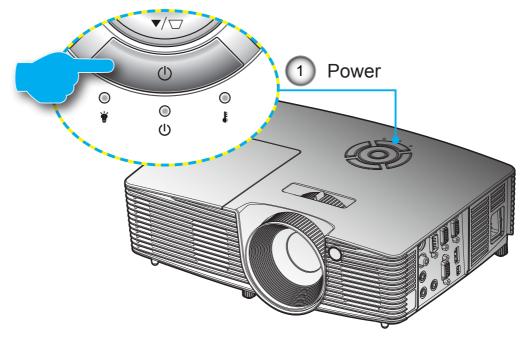
When Power mode (Standby) is set to Eco (<0.5W), the VGA output and Audio pass-through will be deactivated when the projector is in standby.

- 1. Securely connect the power cord and signal cable. When connected, the ON/STANDBY LED will turn Amber.
- 2. Turn on the lamp by pressing "**b**" button either on the top of the projector or on the remote. The ON/STANDBY LED will now turn Green. **1**

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

- when the projector is 3. Turn on and connect the source that you want to display on the screen (computer, notebook, video player, etc). The projector will detect the source automatically. If not, push menu button and go to "OPTIONS".

 Make sure that the "Source Lock" has been set to "Off".
 - If you connect multiple sources at the same time, press the "SOURCE" button on the control panel 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 "**U**" button on the remote control or on the control panel to turn off the projector.

The following message will be displayed on the screen.



Press the "**U**" button again to confirm otherwise the message will disappear after 15 seconds. When you pressing for the second time, the projector will shut down.

- 2. The cooling fans continue to operate for about 10 seconds for cooling cycle and the ON/STANDBY LED will Flash Green. When the ON/STANDBY LED lights solid Amber, the projector has entered standby mode.
 - If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press "b" button to restart the projector.
- 3. Disconnect the power cord from the electrical outlet and the projector.
- 4. Do not turn on the projector immediately following a power off procedure.

Note

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

Warning Indicator

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

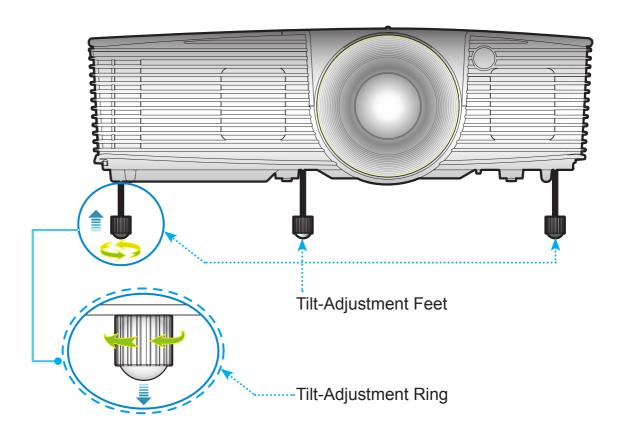
- "LAMP" LED indicator is lit red and if "On/Standby" indicator flashes amber.
- "TEMP" LED indicator is lit red and if "On/Standby" indicator flashes amber. This indicates the projector has overheated. Under normal conditions, the projector can be switched back on.
- "TEMP" LED indicator flashes red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

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

Adjusting the Projected Image Adjusting the Projector's Height

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

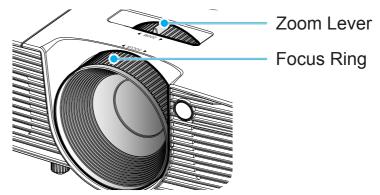
- 1. Locate the adjustable foot you wish to modify on the underside of the projector.
- 2. Rotate the adjustable ring clockwise to raise the projector or counter clockwise to lower it. Repeat with the remaining feet as needed.



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.

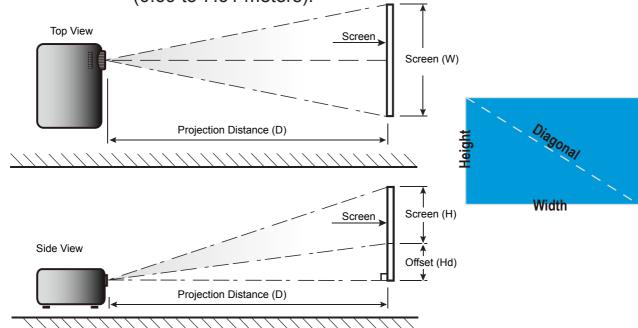
- XGA short throw: The projector will focus at distances from 1.31 to 32.8 feet (0.4 to 10 meters).
- SVGA/XGA series: The projector will focus at distances from 3.94 to 39.36 feet (1.2 to 12.0 meters).
- ▶ WXGA series: The projector will focus at distances from 3.28 to 32.8 feet (1 to 10 meters).



Adjusting Projection Image Size

- XGA short throw: Projection Image Size from 31.9" to 300.0" (0.81 to 7.62 meters).
- SVGA/XGA series: Projection Image Size from 27.5" to 302.8" (0.7 to 7.69 meters).

WXGA series: Projection Image Size from 27.3" to 299.5" (0.69 to 7.61 meters).



SVGA/XGA

Diagonal length	Screen Size W x H			Projection Distance (D)				Offset (Ud)		
(inch) size of	(n	n)	(inch)		(m)		(feet)		Offset (Hd)	
`4:3 Screen	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(inch)
30.00	0.61	0.46	24.00	18.00	1.19	1.31	3.90	4.30	0.07	2.70
40.00	0.81	0.61	32.00	24.00	1.58	1.75	5.20	5.73	0.09	3.60
60.00	1.22	0.91	48.00	36.00	2.38	2.62	7.80	8.60	0.14	5.40
70.00	1.42	1.07	56.00	42.00	2.77	3.06	9.10	10.03	0.16	6.30
80.00	1.63	1.22	64.00	48.00	3.17	3.50	10.40	11.46	0.18	7.20
90.00	1.83	1.37	72.00	54.00	3.57	3.93	11.70	12.90	0.21	8.10
100.00	2.03	1.52	80.00	60.00	3.96	4.37	13.00	14.33	0.23	9.00
120.00	2.44	1.83	96.00	72.00	4.75	5.24	15.60	17.20	0.27	10.80
150.00	3.05	2.29	120.00	90.00	5.94	6.55	19.50	21.49	0.34	13.50
180.00	3.66	2.74	160.00	120.00	7.92	8.74	25.99	28.66	0.46	18.00
250.00	5.08	3.81	200.00	150.00	9.91	10.92	32.49	35.82	0.57	22.49
300.00	6.10	4.57	240.00	180.00	11.89	13.11	38.99	42.99	0.69	26.99

WXGA

Diagonal length	Screen Size W x H			Projection Distance (D)				Offset (Hd)		
(inch) size of	(n	n)	(inch)		(m)		(feet)		Oliset (Hu)	
16:10 Screen	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(inch)
30.00	0.65	0.40	25.43	15.90	1.00	1.10	3.26	3.62	0.05	1.99
40.00	0.86	0.54	33.91	21.19	1.33	1.47	4.35	4.83	0.07	2.65
60.00	1.29	0.81	50.87	31.79	1.99	2.21	6.53	7.25	0.10	3.97
70.00	1.51	0.94	59.34	37.09	2.32	2.58	7.62	8.46	0.12	4.64
80.00	1.72	1.08	67.82	42.39	2.65	2.95	8.70	9.66	0.13	5.30
90.00	1.94	1.21	76.30	47.69	2.99	3.31	9.79	10.87	0.15	5.96
100.00	2.15	1.35	84.78	52.99	3.32	3.68	10.88	12.08	0.17	6.62
120.00	2.58	1.62	101.73	63.58	3.98	4.42	13.06	14.50	0.20	7.95
150.00	3.23	2.02	127.17	79.48	4.98	5.52	16.32	18.12	0.25	9.93
180.00	3.88	2.42	152.60	95.38	5.97	6.63	19.58	21.75	0.30	11.92
250.00	5.38	3.37	211.95	132.47	8.29	9.21	27.20	30.20	0.42	16.56
300.00	6.46	4.04	254.33	158.96	9.95	11.05	32.64	36.24	0.50	19.87

 $^{\ \ \, \ \ \, \ \ \,}$ This table is for user's reference only.

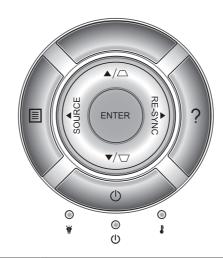
XGA SHORT THROW

Diagonal length	Screen Size W x H			Projection Distance (D)				Offset (Ud)		
(inch) size of	(n	n)	(inch)		(m)		(feet)		Offset (Hd)	
4:3 Screen	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(inch)
40	0.81	0.61	31.89	24.02	0.5	0.5	19.69	19.69	0.09	3.60
50	1.01	0.76	39.76	29.92	0.63	0.63	24.80	24.80	0.11	4.49
60	1.22	0.91	48.03	35.83	0.75	0.75	29.53	29.53	0.14	5.37
70	1.42	1.07	55.91	42.13	0.88	0.88	34.65	34.65	0.16	6.32
80	1.63	1.22	64.17	48.03	1	1	39.37	39.37	0.18	7.20
90	1.83	1.37	72.05	53.94	1.13	1.13	44.49	44.49	0.21	8.09
100	2.03	1.52	79.92	59.84	1.25	1.25	49.21	49.21	0.23	8.98
120	2.44	1.83	96.06	72.05	1.5	1.5	59.06	59.06	0.27	10.81
150	3.05	2.29	120.08	90.16	1.88	1.88	74.02	74.02	0.34	13.52
200	4.06	3.05	159.84	120.08	2.51	2.51	98.82	98.82	0.46	18.01
250	5.08	3.81	200.00	150.00	3.13	3.13	123.23	123.23	0.57	22.50
300	6.1	4.57	240.16	179.92	3.76	3.76	148.03	148.03	0.69	26.99

This table is for user's reference only.

Control Panel & Remote Control

Control Panel



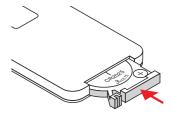
Using the C	Using the Control Panel					
POWER	Ф	Refer to the "Power On/Off the Projector" section on pages 13-14.				
RE-SYNC		Automatically synchronize the projector to the input source.				
ENTER		Confirm your item selection.				
SOURCE		Press "SOURCE" to select an input signal.				
Menu		Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, Press "Menu" again.				
Help	?	Help Menu (only available when OSD menu is not shown).				
Four Direction lect Keys	nal Se-	Use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.				
Keystone	\Box / \Box	Use ☐ ☐ to adjust image distortion caused by tilting the projector. (±40 degrees)				
Lamp LED	¥ 0	Indicate the projector's lamp status.				
Temp LED	! O	Indicate the projector's temperature status.				
ON/STAND- BY LED	U O	Indicate the projector's status.				

Remote Control Battery Installation

- 1. Press firmly and slide the battery cover off.
- 2. Install new battery into the compartment. Remove the old battery and install new one (CR2025). Ensure that the side with a "+" is facing up.



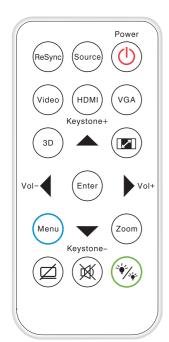
3. Put the cover back.



To ensure safe operation, please observe the following precautions :

- ▶ Use CR2025 type battery.
- Avoid contact with water or liquid.
- ▶ Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new battery.
- Risk of an explosion if battery is replaced by an incorrect type.
- Dispose of used battery according to the instructions.

Remote Control



Using the Remote Control					
Power	மு	Refer to the "Power On/Off the Projector" section on pages 13-14.			
Source		Press "Source" to select an input signal.			
Re-Sync		Automatically synchronizes the projector to the input source.			
Video		Press "Video" to choose Composite Video and S-video source.			
HDMI		Press "HDMI" to choose HDMI source. (For certain model)			
3D		Press the "3D" to turn the 3D OSD menu on/ off.			
Four Directions Select Keys	al	Use ▲ ▼ ◆ to select items or make adjustments to your selection.			
AV Mute	Ø	Momentarily turns off/on the audio and video.			
Enter		Confirm your item selection.			
Mute	娫	Momentarily turns off/on the audio.			
VGA		Press "VGA" to choose VGA sources.			
Keystone +/-		Adjust image distortion caused by tilting the projector.			
Aspect		Use this function to choose your desired aspect ratio.			
Menu		Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, press "Menu" again.			
Volume +/-		Adjust to increase / decrease the volume.			
Brightness Mode	*/*	Change the brightness mode: Bright->Eco ->Dynamic. (refer to page 46)			
Zoom	,	Zoom in on an image. Press ▶ buttons to alter zoom.			

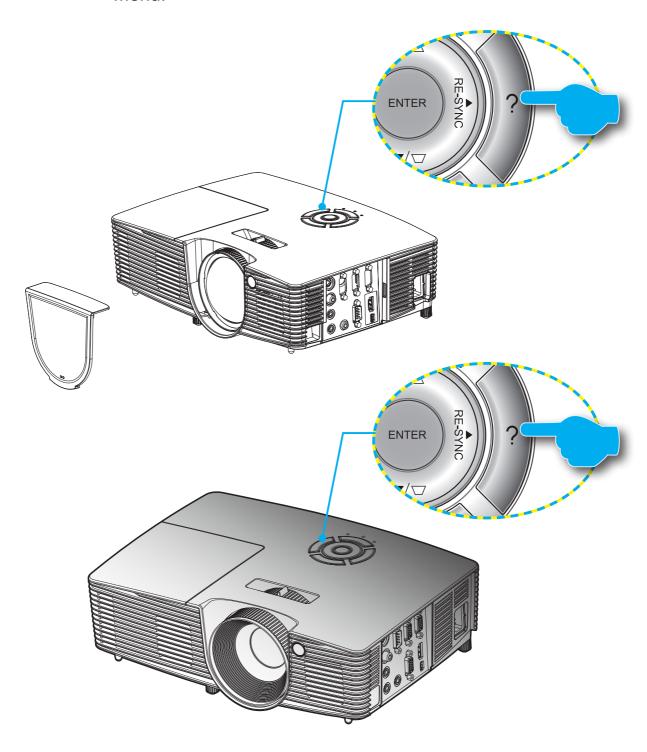


 The interface is subject to model's specifications.

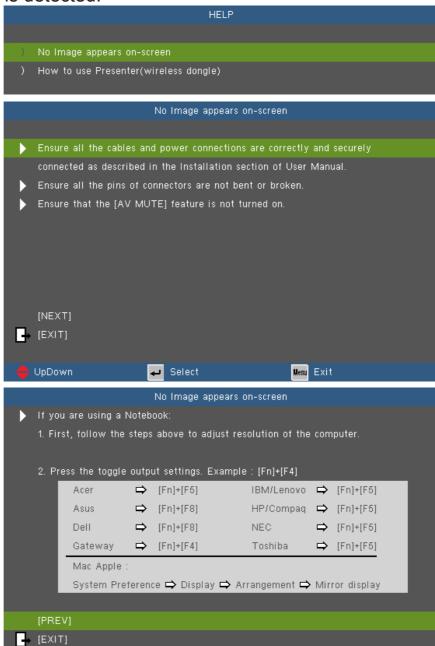
Using the HELP button

The HELP function ensures easy setup and operation.

Press the "?" button on the control panel to open the Help Menu.



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



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

Menu Exit

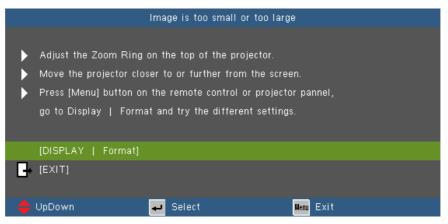


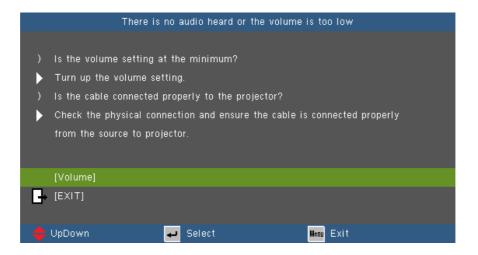
→Select

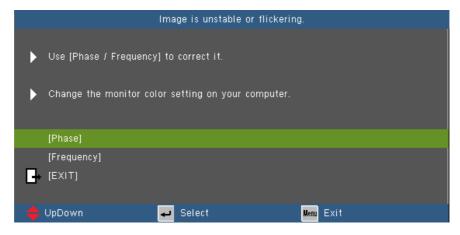


Please refer to the "Troubleshooting" section on pages 48-53 for more details.







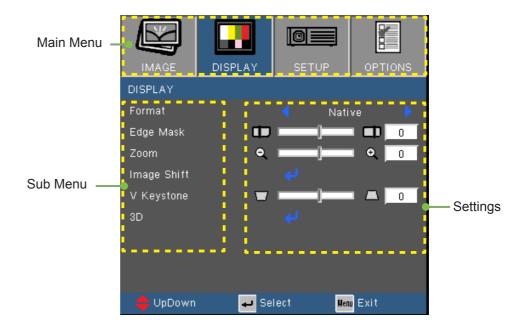


On-screen Display Menus

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 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" key to enter sub menu.
- 3. Use ▲ ▼ keys to select the desired item and adjust the settings using ◀ ▶ key.
- 4. Select the next item to be adjusted in the sub menu and adjust as described above.
- 5. Press "Enter" to confirm, and the screen will return to the main menu.
- 6. To exit, press "Menu" again. The OSD menu will close and the projector will automatically save the new settings.



Menu Tree

Main Menu	Sub Menu	Settings							
IMAGE	Display Mode			Presentation / Bright / Movie / sRGB / Blackboard / User / 3D					
	Brightness			-50~50					
	Contrast			-50~50					
	Sharpness			1~15					
	#1 Color			-50~50					
	#1 Tint			-50~50					
	Advanced	Gamma		Film / Video / Graphics / Standard					
		BrilliantColorTM		1~10					
		Color Temp.		Warm / Medium / Cold					
		Color settings	Red / Green / Blue / Cyan / Magenta / Yellow	Hue / Saturation / Gain					
			White	Red / Green / Blue					
			Reset						
			Exit						
		Color Space		AUTO / RGB / YUV					
				**3 AUTO / RGB (0-255) / RGB (16-235) / YUV					
		#2 Signal	(Automatic	On / Off					
			Phase (VGA)	0~31					
			Frequency (VGA)	-5~5					
			H. Position (VGA)	-5~5					
			V. Position (VGA)	-5~5					
			Exit						
		Exit							
	Reset								
DISPLAY	Format			#4 4:3 / 16:9 / Native / AUTO					
		_		#5 4:3 / 16:9 or 16:10 / Native / AUTO					
	Edge Mask			0~10					
	Zoom			-5~25 (80%~200%)					
	Image Shift	(H		-100~100					
		V		-100~100					
	V Keystone			-40~40					
	3D	3D Mode		Off / DLP-Link					
		3D->2D		3D / L / R					
		#6 3D Format		AUTO / SBS / Top and Bottom / Frame					
		#C 0.7 0		Sequential					
		#6 3D Sync. Invert		On / Off					
	1	Exit		E. Pak / B. Arak / E. arak / Kalina					
	Language			English / Deutsch / Français / Italiano Español / Português / Svenska / Nederlands / Norsk/Dansk / Polski / Suomi / Русский / ελληνικά / Magyar / Čeština / عربي / فارسی / 繁體中文 / 简体中文 / 日本語 /한국어 / ไทย / Türkçe / Việt / Bahasa Indonesia / Ror nå					
	Projection								
	Menu Location								
	#5 Screen Type			16:10 / 16:9					
	*7 Security	Security		On / Off					
		Security Timer		Month / Day / Hour					
		Change Password							
		Exit							

Main Menu	Sub Menu		Settings				
SETUP	Projector ID	0~99					
	Audio Settings	Internal Speaker	On / Off				
		Mute	On / Off				
		Volume	0~10				
		Audio Input	Default / AUDIO1 / AUDIO2				
	Advanced	Logo	Default / Neutral				
		Closed Captioning	Off / CC1 / CC2				
		Exit					
OPTIONS	Input Source		#3 VGA1 / VGA2 / Video / S-Video / HD				
0	Source Lock		On / Off				
	High Altitude		On / Off				
	Information Hide		On / Off				
	Keypad Lock		On / Off				
-	Test Pattern		None / Grid / White Pattern				
	#7 IR Function		On / Off				
_	Background Color		Black / Red / Blue / Green / White				
	Advanced (Direct Power On	On / Off				
		Auto Power Off (min)	0~180				
		Quick Resume	On / Off				
		Sleep Timer (min)	0~990				
		Power Mode (Standby)	Active / Eco.				
	(Exit					
	Lamp Settings	Lamp Hours					
		Lamp Reminder	On / Off				
		Brightness Mode	Bright / Eco. / Dynamic				
		Lamp Reset	Yes / No				
		Dynamic Dimming	On / Off				
		Exit					
	Optional Filter Settings	Optional Filter Installed	Yes / No				
		Filter Usage Hours	0~9999				
		Filter Reminder	Off / 300hr / 500hr / 800hr / 1000hr				
		Filter Reset	Yes / No				
		Exit					
	Reset		Yes / No				



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

- (#5) For WXGA model only. 16:9 or 16:10 depend on "Screen Type" setting.
- (#6) "3D Sync Invert" is only available when 3D is enabled and this mode 3D is for DLP link glass only.
- (#7) The function depends on model's specifications.

IMAGE



Display Mode

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

- ▶ Presentation: Good color and brightness from PC input.
- ▶ Bright: Maximum brightness from PC input.
- Movie: For home theater.
- ▶ sRGB: Standardised accurate color.
- ▶ Blackboard: This mode should be selected to achieve optimum color settings when projecting onto a blackboard (green).
- User: User's settings.
- ▶ 3D: Recommend setting for 3D mode enabled. Any further adjustments by the user in 3D will be saved in this mode for further use.

<u>Brightness</u>

Adjust the brightness of the image.

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

Contrast

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

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

<u>Sharpness</u>

Adjust the sharpness of the image.

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

Color

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

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

Tint

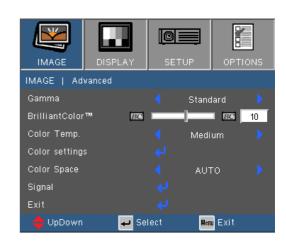
Adjust the color balance of red and green.

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



"Color" and "Tint" functions are only supported under Video mode.

IMAGE | Advanced



Gamma

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.
- Standard: for PC or computer source.

BrilliantColor™

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

Color Temp

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

(warm image)

Color Settings

Press

into the next menu as below and then use

or

to select item.



▶ Red/Green/Blue/Cyan/Magenta/Yellow: Use ◀ or ▶ to select Hue, Saturation and Gain Colors.



White: Use ◀ or ▶ to select Red, Green and Blue Colors.



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



(*) For models with HDMI Input.

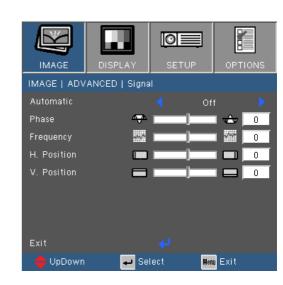
Color Space

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

Reset

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

IMAGE | Advanced | Signal (RGB)





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

<u>Automatic</u>

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

Phase

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

Frequency

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

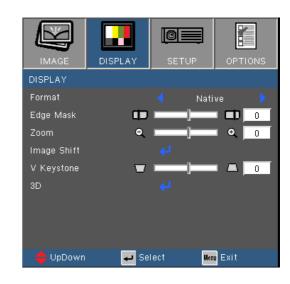
H. Position

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

V. Position

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

DISPLAY



Format

Use this function to choose your desired aspect ratio.

SVGA/XGA

- ▶ 4:3: This format is for 4×3 input sources.
- ▶ 16:9: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- ▶ Native: This format displays the original image without any scaling.
- ▶ AUTO: Automatically selects the appropriate display format.

Auto	Input re		Scale GA)	Auto/Scale (XGA)		
	н	V	Н	V	Н	V
	640	480	800	600	1024	768
	800	600	800	600	1024	768
4:3	1024	768	800	600	1024	768
4.3	1280	1024	800	600	1024	768
	1400	1050	800	600	1024	768
	1600	1200	800	600	1024	768
	1280	720	800	450	1024	576
Wide Laptop	1280	768	800	480	1024	614
	1280	800	800	500	1024	640
ent/	720	576	800	450	1024	576
SDTV	720	480	800	450	1024	576
HDTV	1280	720	800	450	1024	576
וטוע	1920	1080	800	450	1024	576

Aspect ratio (source detected)	Resize image (SVGA)	Resize image (XGA)			
4:3	800 x 600 center	1024 x 768 center			
16:9	800 x 450 center	1024 x 576 center			
Native	No resize image, 1:1 mapping and centered. This format shows the original image without scaling.				

WXGA



16:9 or 16:10 depend on "Screen Type" setting.

- ▶ 4:3: This format is for 4×3 input sources.
- ▶ 16:9: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- ▶ 16:10: This format is for 16×10 input sources, like widescreen laptops.
- ▶ Native: This format displays the original image without any scaling.
- ▶ AUTO: Automatically selects the appropriate display format.

Auto	Input resolution		Screen Type = 16:10 Auto/Scale		Screen Type = 16:9 Auto/Scale	
	Н	V	н	V	н	V
4:3	640	480	1066	800	960	720
	800	600	1066	800	960	720
	1024	768	1066	800	960	720
	1280	1024	1066	800	960	720
	1400	1050	1066	800	960	720
	1600	1200	1066	800	960	720
Wide Laptop	1280	720	1280	720	1280	720
	1280	768	1280	768	1200	768
	1280	800	1280	800	1152	800
SDTV	720	576	1280	720	1280	720
	720	480	1280	720	1280	720
HDTV	1280	720	1280	720	1280	720
	1920	1080	1280	720	1280	720

16:10 Screen	480i/p	576i/p	1080i/p	720p	PC
4:3			1066 x 800 c	enter	
16:10			1280 x 800 c	enter	
Native	1:1 ma cente		1:1 map- ping (960 x 540) display 1280 x 800	1280 x 720 center	1:1 mapping centered.

16:9 Screen	480i/p	576i/p	1080i/p	720p	PC
4:3			960 x 720 ce	enter	
16:9			1280 x 720 c	enter	
Native	1:1 ma cente		1:1 map- ping (960 x 540) display 1280 x 720	1280 x 720 center	1:1 mapping centered.



Each I/O has different setting of "Edge Mask".

"Edge Mask" and "Zoom" can't work at same time.

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.

Zoom

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

Image Shift

Press

into the next menu as below and then use ▲ or ▼ to select item.

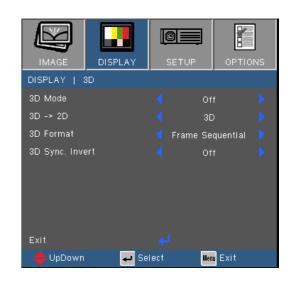


- H: Use
 or
 to shift the projected image position horizontally.
- V: Use ◀ or ► to Shift the projected image position vertically.

V Keystone

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

DISPLAY | 3D





- "3D Sync Invert" is only available when 3D is enabled and this mode 3D is for DLP link glass only.
- Compatible 3D source, 3D content and active shutter glasses are required for 3D viewing.
- See page 55 for supported 3D formats.

<u>3D Mode</u>

- Off: Select "Off" to turn 3D settings off for 3D images.
- DLP Link: Select "DLP Link" to use optimized settings for DLP Link 3D images.

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

- Auto: When a 3D identification signal is detected, the 3D format is selected automatically.
- ▶ SBS: Use this mode for "Side-by-side" format 3D content.
- ▶ Top and Bottom: Use this mode for "Top and Bottom" format 3D content.
- Frame Sequential: Use this mode for "Frame Sequential" format 3D content.

3D Sync. Invert

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





<u>Language</u>

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





<u>Projection</u>

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

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

Rear-Desktop

When selected, the image will appear reversed.

Front-Ceiling

When selected, the image will turn upside down.

Rear-Ceiling

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



"Screen Type" is for WXGA only.

Menu Location

Choose the menu location on the display screen.

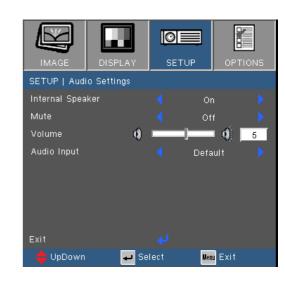
Screen Type

Choose the screen type from 16:10 or 16:9.

Projector ID

ID definition can be set up by menu (range 0-99), and allow user control an individual projector by RS232. Refer to pages 59-63. for the complete list of RS232 commands.

SETUP | Audio Settings



Internal Speaker

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

Mute

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

Volume

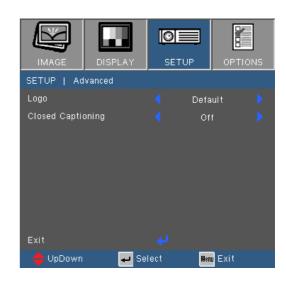
- ▶ Press the ◀ to decrease the volume.
- ▶ Press the ▶ to increase the volume.

Audio Input

The default audio inputs are on the back panel of the projector. Use this option to reassign any of the Audio Inputs to the current image source.

- ▶ Default: VGA1/VGA2.
- Audio1: Video/S-Video.
- Audio2: HDMI.

SETUP | Advanced



Logo

Press \checkmark to capture an image of the picture currently displayed on screen. If changes are made they will take effect the next time the projector is powered on.

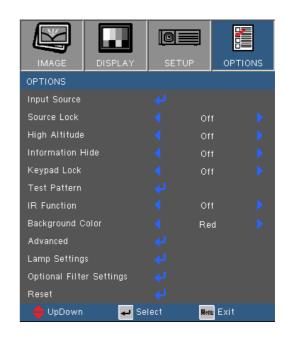
- Default: The default startup screen.
- Neutral: Logo is not displayed on startup screen.

Closed Captioning

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

- ▶ Off: select "Off" to turn off the closed captioning feature.
- ▶ CC1:CC1 language: American English.
- ▶ CC2:CC2 language (depending on the TV channel of the user):Spanish, French, Portuguese, German, Danish.

OPTIONS



Input Source

Use this option to enable / disable input sources. Press \checkmark to enter the sub menu and select which sources you require. Press "Enter" to finalize the selection. The projector will not search for inputs that are not selected.

Source Lock

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

High Altitude

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

Information Hide

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

Keypad Lock

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

Test Pattern

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



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

IR Function(*)



(*) The function depends on model's specifications. ▶ On: Choose "On", the projector can be operated by the remote control. When you change the setting from "Off" to "On", it will display a warning message:



▶ Off: Choose "Off", you will only be able to use the control panel keys. When you change the setting from "On" to "Off", it will display a warning message:



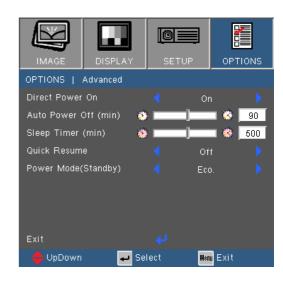
Background Color

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

<u>Reset</u>

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

OPTIONS | Advanced



Direct Power On

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

Auto Power Off (min)

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

Sleep Timer (min)

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

Quick Resume

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

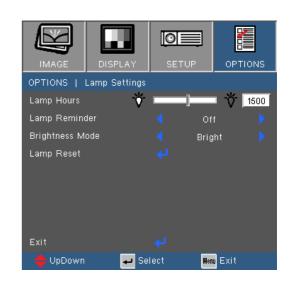
Power Mode (Standby)

- ▶ Eco.: Choose "Eco." to save power dissipation further < 0.5W.
- Active: Choose "Active" to return to normal standby and the VGA out port will be enabled.



- When Power mode (Standby) is set to Eco (<0.5W), the VGA output and Audio pass-through will be deactivated when the projector is in standby.
- The value of sleep timer will be reset to zero after the projector power off.

OPTIONS | Lamp Settings



Lamp Hours

Display the projection time.

<u>Lamp Reminder</u>

Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 30 hours before suggested replacement of lamp.

Brightness Mode

- ▶ BRIGHT: Choose "BRIGHT" to increase the brightness.
- ▶ Eco.: Choose "Eco." to dim the projector lamp which will lower power consumption and extend the lamp life.
- ▶ Dynamic: Choose "Dynamic" to dim the lamp power which will be based on brightness level of the content and adjust lamp power consumption between 100% and 30% dynamically. The lamp life will be extended.

Lamp Reset

Reset the lamp hour counter after replacing the lamp.



When ambient temperature is over 40°C in operating, the projector will switch to Eco automatically.

OPTIONS | Optional Filter Settings



Optional Filter Installed

Select "Yes" to display warning message after 500 hours of use. Select "No" to turn off warning message.

The default setting for Filter is "No". After assembling filter, please turn on the projector then press "Menu", go to "OPTIONS -> Optional Filter Settings -> Optional Filter Installed" and select "Yes".

Filter Usage Hours

Display the filter time.

Filter Reminder

Choose this function to show or hide the warning massage when the changing filter message is displayed. (Factory default setting: 500 hours)

Filter Reset

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

Troubleshooting

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

? No image appears on-screen

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

Partial, scrolling or incorrectly displayed image

- Press "Re-SYNC" on the remote control or control panel.
- If you are using a PC:

For Windows 95, 98, 2000, XP, Windows 7:

- 1. Open the "My Computer" icon, the "Control Panel" folder, and then double click on the "Display" icon.
- 2. Select the "Settings" tab.
- 3. Verify that your display resolution setting is lower than or equal to UXGA (1600 × 1200).
- 4. Click on the "Advanced Properties" button.

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

- 5. Verify the resolution setting is lower than or equal to UXGA (1600 × 1200).
- 6. Select the "Change" button under the "Monitor" tab.

- 7. Click on "Show all devices". Next, select "Standard monitor types" under the SP box; choose the resolution mode you need under the "Models" box.
- 8. Verify that the resolution setting of the monitor display is lower than or equal to UXGA (1600 × 1200).
- If you are using a Notebook:
 - 1. First, follow the steps above to adjust resolution of the computer.
 - 2. Press the appropriate keys listed below for your notebook manufacturer to send signal out from notebook to projector. Example: [Fn]+[F4]

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

- If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.
- The screen of the Notebook or PowerBook computer is not displaying your presentation
- ▶ If you are using a Notebook PC Some Notebook PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer's manual for detailed information.
- [7] Image is unstable or flickering
- ▶ Use "Phase" to correct it. See page 31 for more information.
- ▶ Change the monitor color setting on your computer.
- Image has vertical flickering bar
- ▶ Use "Frequency" to make an adjustment. See page 31 for more information.
- Check and re-configure the display mode of your graphic card to make it compatible with the projector.

? Image is out of focus

- ▶ Make sure the Lens cap is removed.
- Adjust the Focus Ring on the projector lens.
- ▶ Make sure the projection screen is between the required distance. See pages 16-17.

The image is stretched when displaying 16:9 DVD title

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

Image is too small or too large

- ▶ Adjust the Zoom Ring on the top of the projector.
- Move the projector closer to or further from the screen.
- Press "Menu" button on the remote control, go to "Display → Format" and try the different settings.

? Image has slanted sides

- If possible, reposition the projector so that it is horizontally centered on the screen and below the bottom of the screen.
- ▶ Press "Keystone +/-" button on the remote control until the sides are vertical.
- Use "Display → V Keystone" from the OSD to make an adjustment.

? Image is reversed

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



 Use of Keystone is not recommended.

- ? The projector stops responding to all controls
- ▶ If possible, turn off the projector, then unplug the power cord and wait at least 60 seconds before reconnecting power.
- ▶ Check that "Keypad Lock" is not activated by trying to control the projector with the remote control.
- ? Blurry double image
- Press "3D Format" button and switch to "Off" to avoid normal 2D image is blurry double image.
- ? Two images, side-by-side format
- ▶ Press "3D Format" button and switch to "SBS" for input signal is HDMI 1.3 2D 1080i side-by-side.
- ? Image does not display in 3D
- ▶ Check if the battery of 3D glasses is drained.
- ▶ Check if the 3D glasses is turned on.
- ▶ When the input signal is HDMI 1.3 2D (1080i side-by-side half), press "3D Format" button and switch to "SBS".
- 2 Lamp burns out or makes a popping sound
- When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp" section on pages 54-55.

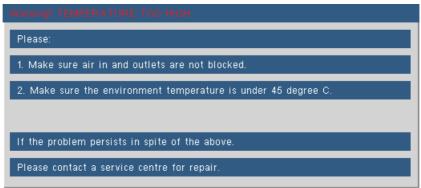
? LED lighting message

Message	心 〇 ON/STANDBY LED	▮ ○ Temp-LED	₩ ○ Lamp-LED
	(Green/Amber)	(Red)	(Red)
Standby State (Input power cord)	Amber	0	0
Power on (Warming)	Flashing Green	0	0
Lamp lighting	Green	0	0
Power off (Cooling)	Flashing Green	0	0
Error (Over Temp.)	Flashing Amber	**	0
Error (Fan fail)	Flashing Amber	Flashing	0
Error (Lamp fail)	Flashing Amber	0	₩



? On Screen Messages

▶ Temperature warning:



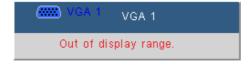
▶ Fan failed:



Lamp warning:



Out of display range:



- If the remote control does not work
- ▶ Check the operating angle of the remote control is within ±20° both horizontally and vertically of one of the IR receivers on the projector.
- ▶ Make sure there are not any obstructions between the remote control and the projector. Move to within 7 m (±0°) of the projector.
- ▶ Make sure the batteries are inserted correctly.
- ▶ Replace batteries if they are exhausted.

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.



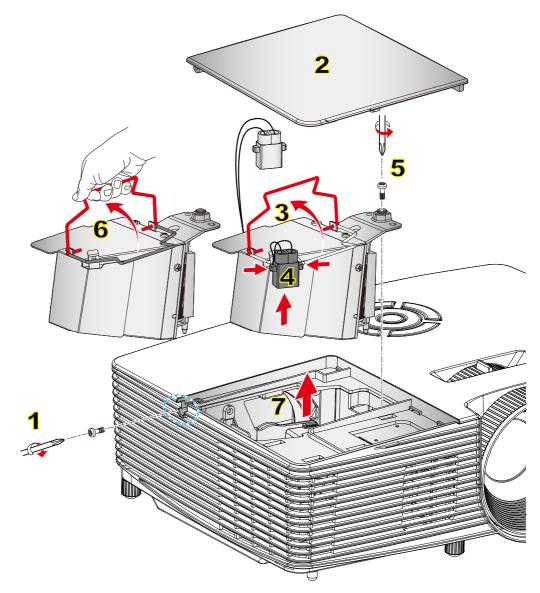
When you see this message, please contact your local reseller or service center to change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.



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



Lamp Replacement Procedure:

- 1. Switch off the power to the projector by pressing the "**也**" button.
- 2. Allow the projector to cool down for at least 30 minutes.
- 3. Disconnect the power cord.
- 4. Unscrew the one screw on the cover. 1
- 5. Lift up and remove the cover. 2
- 6. Lift up the lamp handle. 3
- 7. Press on the both sides then lift up and remove the lamp cord. 4
- 8. Unscrew the one screw on the lamp module. 5
- 9. Lift up the lamp handle 6 and remove the lamp module slowly and carefully. **7**

To replace the lamp module, reverse the previous steps.

10. Turn on the projector and reset the lamp timer.

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

Installing and Cleaning the Dust Filter

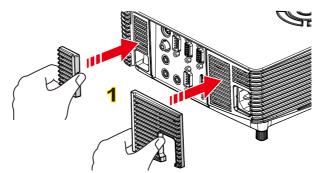
Ноте

- Dust filters are only required/supplied in selected regions with excessive dust.
- Dust Filter is an optional service part.

Installing the Dust Filter

Procedure:

- 1. Install two filters.
- 2. Turn on the projector then press "Menu", go to "OPTIONS -> Optional Filter Settings -> Optional Filter Installed" and select "Yes".



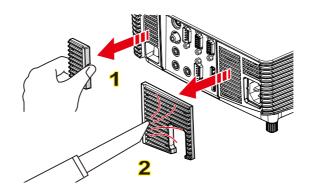
Cleaning the Dust Filter

We recommends cleaning the dust filter every three months; clean it more often if the projector is used in a dusty environment.

Procedure:

- 1. Switch off the power to the projector by pressing the "**也**" button.
- 2. Disconnect the power cord.
- 3. Remove the dust filter slowly and carefully.
- 4. Clean or replace the dust filter.
- 5. To install the dust filter, reverse the previous steps.
- Reset the dust filter counter after replacing or cleaning the dust filter. Press "Menu", go to "OPTIONS -> Optional Filter Settings -> Filter Reset"

Turn on the projector, then press "Menu", "OPTIONS -> Optional Filter Settings -> Optional Filter Installed" and select "No" when you pull out the dust filter and would not install it again.



Compatibility Modes

► Computer/Video/HDMI/Mac Compatibility



- For widescreen resolution (WXGA), the compatibility support is dependent on Notebook/ PC models.
- Please note that using resolutions other than native 800 x 600 (SVGA model), 1024 x 768 (XGA model), 1280 x 800 (WXGA model) may result in some loss of image clarity.
- (*1) 1920 x1200 @60Hz only support RB (reduced blanking).
- (*2) 3D timing for True 3D projector.
- (*3) is not supported HDMI input signal for Mac.
- (*4) Proscene and Data Projector > 4,000 Lumens only, Native resolution must support.
- (*5) Window 8 standard timing.
- 120Hz input signals may be dependent on graphics cards support.

Signal Resolution Refresh Rate (Hz) Video Analog HDMI Mac NTSC 720 x 480 60 0 -						711119 64	,
PAL/SECAM 720 x 576 50 O - - - VGA 640 x 480 60 - O O O 640 x 480 67 - O - O 640 x 480 85 - O - O 800 x 600 56.3 - O - - 800 x 600 60.3 (*2) - O O O 800 x 600 72.2 - O O O 800 x 600 85.1 - O O O 800 x 600 120 (*2) - O O O 800 x 600 120 (*2) - O O O O 1024 x 768 48 - O	Signal	Resolution		Video	Analog	HDMI	Mac
VGA 640 x 480 60 - O O O 640 x 480 67 - O - 640 x 480 85 - O - 800 x 600 56.3 - O O 800 x 600 60.3 (*2) - O O 800 x 600 85.1 - O O 800 x 600 120 (*2) - O O 800 x 600 120 (*2) - O O 1024 x 768 60 (*2) - O O O 1024 x 768 75 - O O XGA 1024 x 768 85 - O O 1024 x 768 85 - O O 1024 x 768 120 (*2) - O O O 1024 x 768 120 (*2) - O O O 1024 x 768 85 - O O O 1024 x 768 75 - O O O WSVGA 1024 x 600 60 - O O HDTV (720p) 1280 x 720 60 (*2) O O O 1280 x 768 60 - O O O 1280 x 768 60 - O O O 1280 x 720 120 (*2) - O O O 1280 x 720 120 (*2) - O O O 1280 x 768 60 - O O O O 1280 x 768 60 - O O O O 1280 x 768 75 - O O O O	NTSC	720 x 480	60	0	-	-	-
VGA 640 x 480	PAL/SECAM	720 x 576	50	0	-	-	-
VGA 640 x 480 72.8 - O - O 640 x 480 85 - O - O 800 x 600 56.3 - O 800 x 600 60.3 (*2) - O O 800 x 600 85.1 - O O O 800 x 600 120 (*2) - O O O 800 x 600 120 (*2) - O O O 1024 x 768 48 - O O 1024 x 768 50 - O (*4) O (*4) 1024 x 768 70.1 - O O O 1024 x 768 75 - O O O 1024 x 768 85 - O O O 1024 x 768 120 (*2) - O O O 1024 x 768 120 (*2) - O O O 1024 x 768 60 0 - O O O 1024 x 768 120 (*2) - O O O O 1024 x 768 120 (*2) - O O O O 1024 x 768 120 (*2) - O O O O 1024 x 768 120 (*2) - O O O O 1024 x 768 120 (*2) - O O O O O 1280 x 720 50 O O O O O 1280 x 720 120 (*2) - O O O O 1280 x 720 120 (*2) - O O O O 1280 x 720 120 (*2) - O O O O 1280 x 720 120 (*2) - O O O O O 1280 x 768 60 - O O O O O		640 x 480	60	-	0	0	0
640 x 480 72.8 - O - O 640 x 480 85 - O - O 800 x 600 56.3 - O - - 800 x 600 60.3 (*2) - O O O 800 x 600 72.2 - O O O 800 x 600 120 (*2) - O O - 1024 x 768 48 - O O O 1024 x 768 50 - O (*4) O (*4) O (*4) 1024 x 768 60 (*2) - O O O XGA 1024 x 768 75 - O O O 1024 x 768 75 - O O O WSVGA 1024 x 768 120 (*2) - O O - HDTV (720p) 1280 x 720 50 O O O O O 1280 x 768 60 - - O O O O 1280 x 768 <t< td=""><td>VCA</td><td>640 x 480</td><td>67</td><td>-</td><td>0</td><td>-</td><td>-</td></t<>	VCA	640 x 480	67	-	0	-	-
SVGA 800 x 600 60.3 (*2) - O O O 800 x 600 800 x 600 85.1 - O O O 800 x 600 85.1 - O O O 800 x 600 120 (*2) - O O - 1024 x 768 48 - O O 1024 x 768 50 - O (*4) 1024 x 768 70.1 - O O 1024 x 768 85 - O O 1024 x 768 1024 x 768 85 - O O 1024 x 768 1024 x 768 85 - O O 1024 x 768 1	VGA	640 x 480	72.8	-	0	-	0
SVGA 800 x 600		640 x 480	85	-	0	-	0
SVGA 800 x 600 72.2 - O O O 800 x 600 85.1 - O O O 800 x 600 120 (*2) - O O - 1024 x 768 48 - O O O 1024 x 768 50 - O (*4) O (*4) O 1024 x 768 60 (*2) - O O O 1024 x 768 75 - O O O 1024 x 768 85 - O O O WSVGA 1024 x 768 120 (*2) - O O - WSVGA 1024 x 768 120 (*2) - O O - HDTV (720p) 1280 x 720 50 O O O O O 1280 x 720 120 (*2) - O O O O O 1280 x 768 60 - O O O O O O 1280 x 768 60 - O O </td <td></td> <td>800 x 600</td> <td>56.3</td> <td>-</td> <td>0</td> <td>-</td> <td>-</td>		800 x 600	56.3	-	0	-	-
800 x 600 85.1 - O O O O 800 x 600 120 (°2) - O O O O 1024 x 768 48 - O O O 1024 x 768 50 - O (°4) O (°4) 1024 x 768 60 (°2) - O O O 1024 x 768 75 - O O O 1024 x 768 85 - O O O 1024 x 768 85 - O O O 1024 x 768 120 (°2) - O O O WSVGA 1024 x 600 60 - - O O O 1280 x 720 50 O O O O 1280 x 720 120 (°2) - O O O O 1280 x 768 60 - O O O O 1280 x 768 60 - O O O O 1280 x 768 75 - O O O O 1280 x 768 75 - O O O O 1280 x 768 75 - O O O O O 1280 x 768 75 - O O O O O 1280 x 768 75 - O O O O O 1280 x 768 75 - O O O O O 1280 x 768 75 - O O O O O 1280 x 768 75 - O O O O O 1280 x 768 75 - O O O O O 1280 x 768 75 - O O O O O 1280 x 768 75 - O O O O O O 1280 x 768 75 - O O O O O O 1280 x 768 75 - O O O O O O O 1280 x 768 75 - O O O O O O O O 1280 x 768 75 - O O O O O O O O O		800 x 600	60.3 (*2)	-	0	0	0
Note	SVGA	800 x 600	72.2	-	0	0	0
1024 x 768		800 x 600	85.1	-	0	0	0
XGA		800 x 600	120 (*2)	-	0	0	-
XGA		1024 x 768	48	-	0	0	
XGA		1024 x 768	50	-	O (*4)	O (*4)	
1024 x 768		1024 x 768	60 (*2)	-	0	0	0
1024 x 768	XGA	1024 x 768	70.1	-	0	0	0
1024 x 768 120 (*2)		1024 x 768	75	-	0	0	0
WSVGA 1024 x 600 60 O - 1280 x 720 50 O O O - HDTV (720p) 1280 x 720 60 (*2) O O O O 1280 x 720 120 (*2) - O O O - 1280 x 768 60 - O O O O 1280 x 768 75 - O O O		1024 x 768	85	-	0	0	0
HDTV (720p) 1280 x 720 50 O O O O O 1280 x 720 60 (*2) O O O O 1280 x 720 120 (*2) - O O O 1280 x 768 60 - O O O O 1280 x 768 75 - O O O		1024 x 768	120 (*2)	-	0	0	-
HDTV (720p)	WSVGA	1024 x 600	60	-	-	0	-
1280 x 720		1280 x 720	50	0	0	0	-
1280 x 768 60 - O O O (*3) 1280 x 768 75 - O O O	HDTV (720p)	1280 x 720	60 (*2)	0	0	0	0
1280 x 768 75 - O O O		1280 x 720	120 (*2)	-	0	0	-
		1280 x 768	60	-	0	0	O (*3)
1280 x 768 85 - O O O (*3)		1280 x 768	75	-	0	0	0
		1280 x 768	85	-	0	0	O (*3)
WXGA 1280 x 800 48 - O O (*4)	WXGA	1280 x 800	48	-	0	O (*4)	
1280 x 800 50 - O (*4) O		1280 x 800	50	-	O (*4)	0	
1280 x 800 60 - O O		1280 x 800	60	-	0	0	0
1366 x 768 60 (*5) - O O -		1366 x 768	60 (*5)	-	0	0	-
1280 x 1024 60 - O O		1280 x 1024	60	-	0	0	0
SXGA 1280 x 1024 75 - O O O	SXGA	1280 x 1024	75	-	0	0	0
1280 x 1024 85 - O O -		1280 x 1024	85	-	0	0	-
SXGA+ 1400 x 1050 60 - 0 0 -	SXGA+	1400 x 1050	60	-	0	0	-

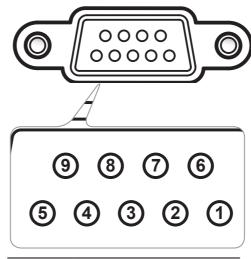
Signal	Resolution	Refresh Rate (Hz)	Video	Analog	HDMI	Мас
UXGA	1600 x1200	60	-	0	0	-
	1920 x 1080	24	0	0	0	-
LIDT\ / (4000=)	1920 x 1080	30	-	-	0	-
HDTV (1080p)	1920 x 1080	50	0	0	0	-
	1920 x 1080	60	0	0	0	0
LIDT\ / (4000;)	1920 x 1080	50	0	-	0	-
HDTV (1080i)	1920 x 1080	60	0	-	0	-
WUXGA (*1)	1920 x 1200	50	-	O (*4)	O (*4)	-
WUXGA	1920 x 1200	60	-	0	0	0
SDTV (576i)	720 x 576	50	0	-	0	-
SDTV (576p)	720 x 576	50	0	-	0	-
SDTV (480i)	720 x 480	60	0	-	0	-
SDTV (480p)	720 x 480	60	0	-	0	-

▶ 3D Input Video Compatibility

	•	•		
			Input Timing	
		1280 x 720p @ 50Hz	Top-and	I-Bottom
		1280 x 720p @ 60Hz	Top-and	I-Bottom
		1280 x 720p @ 50Hz	Frame	packing
	HDMI 1.4a 3D Input	1280 x 720p @ 60Hz	Frame	packing
	Прис	1920 x 1080i @ 50 Hz	Side-by-S	Side (Half)
		1920 x 1080i @ 60 Hz	Side-by-S	Side (Half)
		1920 x 1080p @ 24 Hz	Top-and	I-Bottom
lanut		1920 x 1080p @ 24 Hz	Frame	packing
Input Resolution		1920 x 1080i @ 50Hz		
		1920 x 1080i @ 60Hz	0.4- 0.4- (11-10	While 3D Format is
		1280 x 720p @ 50Hz	Side-by-Side (Half)	"SBS"
		1280 x 720p @ 60Hz		
	HDMI 1.3 3D	1920 x 1080i @ 50Hz		
	Content	1920 x 1080i @ 60Hz	To a seed Datte or	While 3D Format is
		1280 x 720p @ 50Hz	Top-and-Bottom	"Top and Bottom"
		1280 x 720p @ 60Hz		
		480i	HQFS	While 3D Format is "Frame sequential"
				Traine sequential

RS232 Commands and Protocol Function List

RS232 Pin Assignments



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

RS232 Protocol Function List



1. There is a <CR> after all ASCII commands.

2. 0D is the HEX code for <CR> in ASCII code.

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

SEND to project	or		
232 ASCII Code	HEX Code	Function	Description
-XX00 1	7E 30 30 30 30 20 31 0D	Power ON	
-XX00 0	7E 30 30 30 30 20 30 0D	Power OFF	(0/2 for backward compatible)
-XX01 1	7E 30 30 30 31 20 31 0D	Resync	
-XX02 1	7E 30 30 30 32 20 31 0D	AV Mute	On
-XX02 0	7E 30 30 30 32 20 30 0D		Off (0/2 for backward compatible)
-XX03 1	7E 30 30 30 33 20 31 0D	Mute	On
-XX03 0	7E 30 30 30 33 20 30 0D		Off (0/2 for backward compatible)
XX04 1	7E 30 30 30 34 20 31 0D	Freeze	
XX04 0	7E 30 30 30 34 20 30 0D	Unfreeze	(0/2 for backward compatible)
-XX05 1	7E 30 30 30 35 20 31 0D	Zoom Plus	
-XX06 1	7E 30 30 30 36 20 31 0D	Zoom Minus	
~XX12 5	7E 30 30 31 32 20 35 0D	Direct Source Commands	VGA
~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
-XX20 7	7E 30 30 32 30 20 37 0D		Blackboard
-XX20 9	7E 30 30 32 30 20 39 0D		3D
-XX21 n	7E 30 30 32 31 20 a 0D	Brightness	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
-XX22 n	7E 30 30 32 32 20 a 0D	Contrast	$n = -50 (a=2D 35 30) \sim 50 (a=35 30)$
-XX23 n	7E 30 30 32 33 20 a 0D	Sharpness	$n = 1 (a=31) \sim 15 (a=31 35)$
-XX24 n	7E 30 30 32 34 20 a 0D	Color Settings/White	Red $n = -50 (a=2D 35 30) \sim 50 (a=35 30)$
-XX25 n	7E 30 30 32 35 20 a 0D		Green $n = -50 (a=2D \ 35 \ 30) \sim 50 (a=35 \ 30)$
-XX26 n	7E 30 30 32 36 20 a 0D		Blue $n = -50 (a=2D \ 35 \ 30) \sim 50 (a=35 \ 30)$
-XX33 1	7E 30 30 33 33 20 31 0D		Reset
-XX34 n	7E 30 30 33 34 20 a 0D	BrilliantColor TM	$n = 1 (a=30) \sim 10 (a=31 \ 30)$
-XX35 1	7E 30 30 33 35 20 31 0D	Gamma	Film
-XX35 2	7E 30 30 33 35 20 32 0D		Video
~XX35 3	7E 30 30 33 35 20 33 0D		Graphics
-XX35 4	7E 30 30 33 35 20 34 0D		Standard
-XX36 1	7E 30 30 33 36 20 31 0D		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\ RGB(0-255)
-XX37 3	7E 30 30 33 37 20 33 0D		YUV
-XX37 4	7E 30 30 33 37 20 34 0D		RGB(16 - 235)
-XX73 n	7E 30 30 37 33 20 a 0D	Signal	Frequency $n = -5 \text{ (a=2D 35)} \sim 5 \text{ (a=35)}$ By signal
XX91 n	7E 30 30 39 31 20 a 0D		Automatic $n = 0$ disable; $n = 1$ enable
-XX74 n	7E 30 30 37 34 20 a 0D		Phase $n = 0$ (a=30) ~ 31 (a=33 31) By signal
-XX75 n	7E 30 30 37 35 20 a 0D		H. Position $n = -5$ (a=2D 35) ~ 5 (a=35) By timing
-XX76 n	7E 30 30 37 36 20 a 0D		V. Position $n = -5 \text{ (a=2D 35)} \sim 5 \text{ (a=35)}$ By timing

Name	~XX45 n ~XX44 n	7E 30 30 34 34 20 a 0D 7E 30 30 34 35 20 a 0D	Color (Saturation) Tint		n = -50 (a=2D 35 30) ~ 50 (a=35 30) n = -50 (a=2D 35 30) ~ 50 (a=35 30))
	~AA44 II	/E 30 30 34 33 20 a 0D	1 IIIL		1130 (a-2D 33 30) ~ 30 (a-33 30))
	~XX60 1	7E 30 30 36 30 20 31 0D	Format	4:3	
	~XX60 2	7E 30 30 36 30 20 32 0D		16:9	
-XX600 7E 30 30 36 30 20 56 00	~XX60 3	7E 30 30 36 30 20 33 0D		16:10(WXGA)	
	~XX60 5	7E 30 30 36 30 20 35 0D		LBX	
-XX61 n	~XX60 6	7E 30 30 36 30 20 36 0D		Native	
	~XX60 7			Auto	
	~XX61 n	7E 30 30 36 31 20 a 0D	Edge mask		$n = 0 \text{ (a=30)} \sim 10 \text{ (a=31 30)}$
-XX230					
				OFF	n 10 (a 22 3 1 3 0) 10 (a 3 1 3 0)
			35 .25		
-XX405 0 7E 30 30 34 30 52 03 00 D 3D Format Auto -XX405 1 7E 30 30 34 30 52 03 10 D Stop 31 D Stop 31 D Stop 32 01 D Top and Bottom -XX406 2 7E 30 30 34 30 55 20 31 00 Frame Sequential -XX210 1 7E 30 30 34 30 35 20 33 00 D Stop 4 Control 4 Contr					
-XX405 TE 30 30 34 30 35 20 31 0D			3D Format		
-XX406 2			3D Politiat		
-XX231 0 7E 30 30 32 33 31 20 31 0D 3D Sync Invert Off -XX270 1 7E 30 30 32 33 31 20 31 0D 3D Sync Invert Off -XX70 2 7E 30 30 37 30 20 31 0D Language English -XX70 2 7E 30 30 37 30 20 31 0D French -XX70 4 7E 30 30 37 30 20 35 0D French -XX70 4 7E 30 30 37 30 20 35 0D Sync Invert Off -XX70 6 7E 30 30 37 30 20 35 0D French -XX70 7 7E 30 30 37 30 20 36 0D Poltsh -XX70 7 7E 30 30 37 30 20 36 0D Poltsh -XX70 9 7E 30 30 37 30 20 35 0D Dutch -XX70 9 7E 30 30 37 30 20 31 0D Sync Invert -XX70 1 7E 30 30 37 30 20 31 30 0D Sync Invert -XX70 1 7E 30 30 37 30 20 31 30 0D Sync Invert -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D Sync Invert -XX70 1 7E 30 30 37 30 20 31 30 0D Sync Invert -XX70 1 7E 30 30 37 30 20 31 30 0D Sync Invert -XX70 1 7E 30 30 37 30 20 31 30 0D Sync Invert -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 35 0D French -XX70 1 7E 30 30 37 30 20 31 35 0D French -XX70 1 7E 30 30 37 30 20 31 35 0D French -XX70 1 7E 30 30 37 30 20 31 35 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 30 20 31 30 0D French -XX70 1 7E 30 30 37 31 20 30 0D French -XX70 1 7E 30 30 37 31 20 30 0D French -XX70 1 7E 30 30 37 31 20 30 0D French -XX70 1 7E 30 30 37 31 20 30 0D French -XX70 1 7E 30 30 37 31 20 30 0D French -XX70 1 7E 30 30 37 31 20 30 0D French -XX71 1 7E 30 30 37 31 20 30 0D French -XX71 1 7E 30 30 37 31 20 30 0D French -XX71 1 7E 30 30 37 31 20 30 0D French -XX71 1 7E 30 30 37 31 20 30 0D French -XX71 1 7E 30 30 37 31 20 30 0D French -XX71 1 7E 30 30 37 31 20 30 0D French -XX71 1 7E 30 30 37 31 20 30 0D French -XX71 1 7E 30 30					
-XX231 1 7E 30 30 32 33 31 20 31 0D 3D Sync Invert Off -XX70 1 7E 30 30 37 30 20 31 0D -XX70 3 7E 30 30 37 30 20 33 0D -XX70 3 7E 30 30 37 30 20 33 0D -XX70 5 7E 30 30 37 30 20 34 0D -XX70 6 7E 30 30 37 30 20 34 0D -XX70 7 7E 30 30 37 30 20 36 0D -XX70 7 7E 30 30 37 30 20 36 0D -XX70 8 7E 30 30 37 30 20 36 0D -XX70 9 7E 30 30 37 30 20 36 0D -XX70 9 7E 30 30 37 30 20 38 0D -XX70 9 7E 30 30 37 30 20 31 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1 7E 30 30 37 31 20 30 0D -XX70 1			D. C I		
-XX70 1					
-XX70 2	~XX231 1	/E 30 30 32 33 31 20 31 0D 3	O Sync Invert	Off	
-XX70 3	~XX70 1	7E 30 30 37 30 20 31 0D	Language	English	
-XX70 4	~XX70 2	7E 30 30 37 30 20 32 0D		German	
-XX70 5	~XX70 3				
-XX70 5				Italian	
-XX70 6	~XX70 5	7E 30 30 37 30 20 35 0D		Spanish	
-XX70 7					
-XX70 8	~XX70 7				
-XX70 9	~XX70 8				
-XX70 10					
-XX70 11 7E 30 30 37 30 20 31 31 0D Finnish -XX70 12 7E 30 30 37 30 20 31 32 0D Greek -XX70 13 7E 30 30 37 30 20 31 33 0D Traditional Chinese -XX70 14 7E 30 30 37 30 20 31 34 0D Simplified Chinese -XX70 15 7E 30 30 37 30 20 31 35 0D Japanese -XX70 16 7E 30 30 37 30 20 31 35 0D Korean -XX70 17 7E 30 30 37 30 20 31 38 0D Korean -XX70 18 7E 30 30 37 30 20 31 38 0D Hungarian -XX70 19 7E 30 30 37 30 20 31 39 0D Czechoslovak -XX70 20 7E 30 30 37 30 20 31 39 0D Traditional Chinese -XX70 21 7E 30 30 37 30 20 32 30 0D Traditional Chinese -XX70 22 7E 30 30 37 30 20 32 30 0D Traditional Chinese -XX70 25 7E 30 30 37 30 20 32 30 0D Traditional Chinese -XX70 27 7E 30 30 37 30 20 32 30 0D Traditional Chinese -XX70 27 7E 30 30 37 30 20 32 30 0D Traditional Chinese -XX70 27 7E 30 30 37 30 20 32 30 0D Traditional Chinese -XX70 27 7E 30 30 37 31 20 31 0D Projection Front-Desktop -XX71 1 7E 30 30 37 31 20 31 0D Rear-Desktop -XXX71 2 7E 30 30 37 31 20 30 0D Rear-Desktop -XXX71 2 7E 30 30 37 31 20 30 0D Rear-Desktop -XXX71 3 7E 30 30 37 31 20 30 0D Rear-Desktop -XXX71 4 7E 30 30 37 32 20 30 0D Top Right -XXX72 5 7E 30 30 37 32 20 30 0D Bottom Left -XXX72 5 7E 30 30 37 32 20 30 0D Bottom Left -XXX72 5 7E 30 30 37 32 20 30 0D Bottom Left -XXX72 5 7E 30 30 37 31 20 31 0D Screen Type 16:10 -XXX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 -XXX90 1 7E 30 30 39 31 20 30 0D FEAST OF The Store Type 16:10 -XXX90 1 7E 30 30 39 31 20 30 0D FEAST OF Type 16:10	~XX70 10			Norwegian/Danish	
-XX70 12					
-XX70 13					
-XX70 14	~XX70 13			Traditional Chinese	
-XX70 15					
-XX70 16					
-XX70 17					
-XX70 18					
-XX70 19					
-XX70 20					
-XX70 21					
-XX70 22					
~XX70 23					
~XX70 25					
-XX70 26					
~XX70 27					
~XX71 1					
~XX71 2 7E 30 30 37 31 20 32 0D Rear-Desktop ~XX71 3 7E 30 30 37 31 20 33 0D Front-Ceiling ~XX71 4 7E 30 30 37 31 20 34 0D Rear-Ceiling ~XX72 1 7E 30 30 37 32 20 31 0D Menu Location Top Left ~XX72 2 7E 30 30 37 32 20 32 0D Top Right ~XX72 3 7E 30 30 37 32 20 33 0D Centre ~XX72 4 7E 30 30 37 32 20 34 0D Bottom Left ~XX72 5 7E 30 30 37 32 20 35 0D Bottom Left ~XX72 5 7E 30 30 37 32 20 35 0D Bottom Right (WXGA only) ~XX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 ~XX90 0 7E 30 30 39 31 20 30 0D 16:9			n : ::		
~XX71 3			Projection		
~XX71 4 7E 30 30 37 31 20 34 0D Rear-Ceiling ~XX72 1 7E 30 30 37 32 20 31 0D Menu Location Top Left ~XX72 2 7E 30 30 37 32 20 32 0D Top Right ~XX72 3 7E 30 30 37 32 20 33 0D Centre ~XX72 4 7E 30 30 37 32 20 34 0D Bottom Left ~XX72 5 7E 30 30 37 32 20 35 0D Bottom Right (WXGA only) ~XX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 ~XX90 0 7E 30 30 39 31 20 30 0D 16:9					
~XX72 1 7E 30 30 37 32 20 31 0D Menu Location Top Left ~XX72 2 7E 30 30 37 32 20 32 0D Top Right ~XX72 3 7E 30 30 37 32 20 33 0D Centre ~XX72 4 7E 30 30 37 32 20 34 0D Bottom Left ~XX72 5 7E 30 30 37 32 20 35 0D Bottom Right (WXGA only) ~XX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 ~XX90 0 7E 30 30 39 31 20 30 0D 16:9					
~XX72 2 7E 30 30 37 32 20 32 0D Top Right ~XX72 3 7E 30 30 37 32 20 33 0D Centre ~XX72 4 7E 30 30 37 32 20 34 0D Bottom Left ~XX72 5 7E 30 30 37 32 20 35 0D Bottom Right (WXGA only) ~XX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 ~XX90 0 7E 30 30 39 31 20 30 0D 16:9	~XX71 4	7E 30 30 37 31 20 34 0D		Rear-Ceiling	
~XX72 2 7E 30 30 37 32 20 32 0D Top Right ~XX72 3 7E 30 30 37 32 20 33 0D Centre ~XX72 4 7E 30 30 37 32 20 34 0D Bottom Left ~XX72 5 7E 30 30 37 32 20 35 0D Bottom Right (WXGA only) ~XX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 ~XX90 0 7E 30 30 39 31 20 30 0D 16:9	~XX72 1	7E 30 30 37 32 20 31 0D	Menu Location	Top Left	
~XX72 3					
~XX72 4 7E 30 30 37 32 20 34 0D Bottom Left ~XX72 5 7E 30 30 37 32 20 35 0D Bottom Right (WXGA only) ~XX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 ~XX90 0 7E 30 30 39 31 20 30 0D 16:9					
~XX72 5 7E 30 30 37 32 20 35 0D Bottom Right (WXGA only) ~XX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 ~XX90 0 7E 30 30 39 31 20 30 0D 16:9					
~XX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 ~XX90 0 7E 30 30 39 31 20 30 0D 16:9					
~XX90 1 7E 30 30 39 31 20 31 0D Screen Type 16:10 ~XX90 0 7E 30 30 39 31 20 30 0D 16:9	(WXGA only)				
~XX90 0 7E 30 30 39 31 20 30 0D 16:9		7E 30 30 39 31 20 31 0D	Screen Type	16:10	
			- 3.00m - Jpo		
				10.7	

~XX79 n	7E 30 30 37 39 20 a 0D	Projector ID	n = 00 (a=30 30) ~ 99 (a	a=39 39)
~XX82 1	7E 30 30 38 32 20 31 0D	Logo	Default	
~XX82 3	7E 30 30 38 32 20 33 0D	ž.	Neutral	
~XX88 0	7E 30 30 38 38 20 30 0D	Closed Captioning	Off	
~XX88 1	7E 30 30 38 38 20 31 0D		cc1	
~XX88 2	7E 30 30 38 38 20 32 0D		cc2	
~XX100 1	7E 30 30 31 30 30 20 31 0D	Source Lock	On	
~XX100 0	7E 30 30 31 30 30 20 30 0D	TTI-1. A leie-d-	Off (0/2 for backward c	ompatible)
~XX101 1 ~XX101 0	7E 30 30 31 30 31 20 31 0D 7E 30 30 31 30 31 20 30 0D	High Altitude	On Off (0/2 for backward c	omnatible)
~XX101 0 ~XX102 1	7E 30 30 31 30 31 20 30 0D 7E 30 30 31 30 32 20 31 0D	Information Hide	On (0/2 for backward c	ompatible)
~XX102 0	7E 30 30 31 30 32 20 30 0D		Off (0/2 for backward c	ompatible)
~XX103 1	7E 30 30 31 30 33 20 31 0D	Keypad Lock	On	• ,
~XX103 0	7E 30 30 31 30 33 20 30 0D		Off (0/2 for backward c	ompatible)
~XX195 0	7E 30 30 31 39 35 20 30 0D	Test Pattern	None	
~XX195 1 ~XX195 2	7E 30 30 31 39 35 20 31 0D 7E 30 30 31 39 35 20 32 0D		Grid White Pattern	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	/E 30 30 31 39 33 20 32 0D			
~XX11 0 ~XX11 1	7E 30 30 31 31 20 30 0D 7E 30 30 31 31 20 31 0D	IR Function	Off On	
~				
~XX104 1	7E 30 30 31 30 34 20 31 0D	Background Color	Blue	
~XX104 2 ~XX104 3	7E 30 30 31 30 34 20 32 0D 7E 30 30 31 30 34 20 33 0D		Black Red	
~XX104 3 ~XX104 4	7E 30 30 31 30 34 20 33 0D		Green	
~XX104 5	7E 30 30 31 30 34 20 34 0D		White	
~XX105 1		Advanced		On
~XX105 1 ~XX105 0	7E 30 30 31 30 35 20 31 0D 7E 30 30 31 30 35 20 30 0D	Advanced	Direct Power On	On Off (0/2 for backward compatible)
~XX105 0	7E 30 30 31 30 36 20 a 0D		Auto Power Off (min)	n = 0 (a=30) ~ 180 (a=31 38 30) ~XX107 n 7E 30 30 31
30 37 20 a 0D		Sleep Timer (min)	$n = 0 (a=30) \sim 990 (a=3)$	
~XX115 1	7E 30 30 31 31 35 20 31 0D	• • • •	Quick Resume	On
~XX115 0	7E 30 30 31 31 35 20 30 0D			Off (0/2 for backward compatible)
~XX114 1	7E 30 30 31 31 34 20 31 0D		Power Mode(Standby)	Eco.(<=0.5W)
~XX114 0	7E 30 30 31 31 34 20 30 0D			Active (0/2 for backward compatible)
~XX109 1	7E 30 30 31 30 39 20 31 0D		Lamp Reminder	On
~XX109 0	7E 30 30 31 30 39 20 30 0D		Europ Reminder	Off (0/2 for backward compatible)
~XX110 1	7E 30 30 31 31 30 20 31 0D		Brightness Mode	Bright
~XX110 2	7E 30 30 31 31 30 20 32 0D			Eco
~XX110 4	7E 30 30 31 31 30 20 34 0D		Dynamic	**
~XX111 1 ~XX111 0	7E 30 30 31 31 31 20 31 0D 7E 30 30 31 31 31 20 30	0D	Lamp Reset	Yes No (0/2 for healgyard compatible)
~~~~~~~	/E 30 30 31 31 31 20 30	0D		No (0/2 for backward compatible)
~XX322 0	7E 30 30 33 32 32 20 30 0D Fil	ter Reminder	Off	
~XX322 1	7E 30 30 33 32 32 20 31 0D		300 hr	
~XX322 2 ~XX322 3	7E 30 30 33 32 32 20 32 0D 7E 30 30 33 32 32 20 33 0D		500 hr 800 hr	
~XX322 3	7E 30 30 33 32 32 20 33 0D 7E 30 30 33 32 32 20 34 0D		1000 hr	
~XX323 1		Iter Reset	Yes	
~XX323 0	7E 30 30 33 32 33 20 30 0D		No	
~XX112 1	7E 30 30 31 31 32 20 31 0D	Reset		Yes
~XX99 1 ~XX210 n	7E 30 30 39 39 20 31 0D 7E 30 30 32 30 30 20 n 0D	RS232 Alert Reset	Reset System Alert	n: 1-30 characters
				II. 1-50 characters
SEND to emula	te Kemote			
~XX140 10	7E 30 30 31 34 30 20 31 30 0D		Up	
~XX140 11	7E 30 30 31 34 30 20 31 31 0D		Left	ENILI)
~XX140 12 ~XX140 13	7E 30 30 31 34 30 20 31 32 0D 7E 30 30 31 34 30 20 31 33 0D		Enter (for projection MI Right	ENU)
~XX140 13 ~XX140 14	7E 30 30 31 34 30 20 31 34 0D		Down	
~XX140 15	7E 30 30 31 34 30 20 31 34 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 +	
	7E 30 30 31 34 30 20 31 39 0D		Brightness	
			Menu	
~XX140 20	7E 30 30 31 34 30 20 32 30 0D			
~XX140 20 ~XX140 21	7E 30 30 31 34 30 20 32 31 0D		Zoom	
~XX140 19 ~XX140 20 ~XX140 21 ~XX140 28 ~XX140 47				

SEND from projector automatically

232 ASCII Code	HEX Code	Function	Projector Return	Description

when Standby/Warming/Cooling/Out of Range/Lamp fail/Fan Lock/Over Temperature/ Lamp Hours Running Out/Cover Open

INFOn

Standby/Warming/Cooling/Out of Range/Lamp fail/Fan Lock/Over Temperature/Lamp Hours Running Out/Cover

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: 0/1/3/4= None/VGA /Video/S-Video
~XX122 1	7E 30 30 31 32 32 20 31 0D	Software Version	OKdddd	dddd: FW version
~XX123 1	7E 30 30 31 32 33 20 31 0D	Display Mode	OKn	n: 0/1/2/3/4/5/6/7/
				None/Presentation/Bright/Movie/sRGB/User/Blackboard./3D
~XX124 1	7E 30 30 31 32 34 20 31 0D	Power State	OKn	n: 0/1 = Off/On
	7E 30 30 31 32 35 20 31 0D	Brightness	OKn	
	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	(WXGA) n: $0/1/2/3/4 = 4:3/16:9$ or $16:10/LBX/Native/AUTO$
				(SVGA/XGA) n: $0/1/2/3/4 = 4:3/16:9/LBX/Native/AUTO$
				*16:9 or 16:10 depend on Screen Type setting
	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	OKabbbbccdddde	
				a: 0/1 = Off/On
				bbbb: LampHour
				cc: source
				00/01/03/04 = None/VGA /Video/S-Video
				dddd: FW version
				e : Display mode 0/1/2/3/4/5/6/7
7777.51	TE 20 20 21 25 21 20 21 0D	N. 11	011	None/Presentation/Bright/Movie/sRGB/User/Blackboard/3D
	7E 30 30 31 35 31 20 31 0D	Model name	OKn	n:1/2/3= SVGA/ XGA/ WXGA
	7E 30 30 31 30 38 20 31 0D	Lamp Hours	OKbbbb	bbbb: LampHour
	7E 30 30 31 30 38 20 31 0D 7E 30 30 33 32 31 20 31 0D	Cumulative Lamp Hours	OKbbbbb	bbbbb: (5 digits) Total Lamp Hours
~XX321 1	/E 30 30 33 32 31 20 31 0D	Filter Usage Hours	OKbbbb	bbbb: Filter Usage Hours

Ceiling Mount Installation

- 1. To prevent damage to your projector, please use the InFocus ceiling mount.
- 2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attach a mount to the projector meet the following specifications:

► Screw type: M4*3

Minimum screw length: 10mm

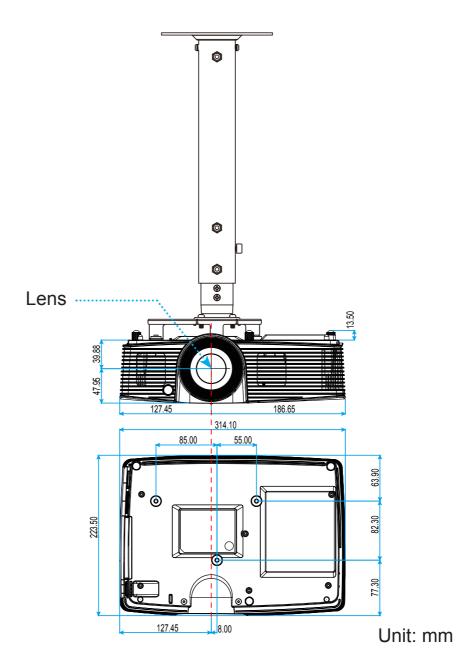


Please note that damage resulting from incorrect installation will void the warranty.



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



Regulation & Safety Notices

This appendix lists the general notices of your projector.

FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

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

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

Notice: Shielded cables

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

Caution

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

Operation conditions

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

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

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

Disposal instructions



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