



INFOCUS QUANTUM LASER USERS GUIDE

REGULATORY MODEL	PRODUCT NAME	LENS TYPE	RESOLUTION
P145	QUANTUM LASER IN1106SL	STANDARD THROW	WXGA
P145	QUANTUM LASER IN1108SL	STANDARD THROW	1080P
P145	QUANTUM LASER IN1108ST	SHORT THROW	1080P

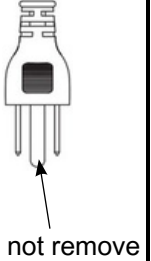


InFocus

Safety Instructions

	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 a person.
	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.

⚠ Caution: This equipment is equipped with a three-pin grounding-type power plug. Do not remove the grounding pin on the power plug. This plug will only fit a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug. ⚠ Warning: Do not remove the earthing pin on the main plug. This apparatus is equipped with a three prong earthing type main plug. This plug will only fit an earthing-type main socket. This is a safety feature. If you are unable to insert the plug into the main socket, contact an electrician. Do not modify the power plug or disable its grounding feature.	
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Important Safety Instruction

1. Do not block any ventilation openings. To ensure reliable operation of the projector and to prevent overheating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
2. Do not use the projector near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture.
3. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emit 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 into 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.

Intended Use Statement

- Operation Temperature:
 - For 0 - 2500 ft, 0°C ~ 40°C
 - For 2500 - 5000 ft, 0°C ~ 35°C
 - For 5000 - 10000 ft, 0°C ~ 30°C
- Maximum Humidity:
 - Operating: 10%~80% RH (Max.), Non-condensing
 - Storage: 5%~90% RH, Non-condensing

The ambient operating environment should be free of airborne smoke, grease, oil and other contaminants that can affect the operation or performance of the projector.

Use of this product in adverse conditions will void the product warranty.

Safety Information

Please read, understand, and follow all safety information contained in these instructions prior to the use of this projector. Retain these instructions for future reference.

Explanation of Signal Word Consequences	
 Warning:	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury and/or property damage.
 Caution:	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury and/or property damage.
 Warning:	Hazardous voltage

 Warning:
To reduce the risk associated with hazardous voltage: • Do not modify this product in any way. • Do not attempt to service this projector. • There are no user-serviceable parts. Service to be performed only by a InFocus authorized service provider using InFocus approved system components.
To reduce the risk associated with fire and explosion: • Do not immerse the projector in any liquid or allow to get wet.
To reduce the risks associated with choking: • Keep all small parts like the remote control battery away from young children and pets.
To reduce the risk associated with hazardous voltage, impact, tripping, and intense visible light: • Do not use this projector around unsupervised children.

⚠ Caution:

To reduce the risks associated with hearing loss:

- Be sure to read earphone manufacturer's instructions with respect to volume level.
- User is responsible to set a safe volume level.

To reduce the risk associated with explosion, and/or chemicals from a leaking batteries:

- Use with two AAA batteries. Orient the battery's plus (+) and minus (-) terminals of the batteries according to the markings found on the remote control.
- Do not leave the batteries in the remote for an extended period of time.
- Do not heat or expose the batteries to fire.
- Do not disassemble, short, or recharge the batteries.
- Do not carry batteries loose in your pocket or purse.
- Avoid eye and skin contact in the event a battery leaks.

To reduce the risk associated with environmental contamination:

- Dispose of all system components in accordance with applicable government regulations.

To reduce the risks associated with Laser light:

- Do not stare directly into the projector lens.

To reduce the risks associated with tripping and falling:

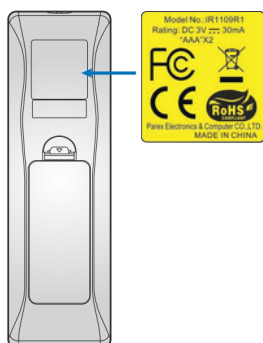
- Position the power cord and data cables so that they are not a tripping hazard.

IMPORTANT! Do not expose the projector to direct sunlight in a closed space such as a vehicle.

SAVE THESE INSTRUCTIONS

⚠ Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Safety Labels



Trademarks

InFocus and the InFocus logo are trademarks of InFocus Corporation. Adobe and the Adobe logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Microsoft, PowerPoint, and Excel are registered trademarks of Microsoft Corporation.

All other trademarks or registered trademarks are property of their respective companies.

Regulatory Notices

FCC STATEMENT - CLASS B

This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual may cause interference to radio communications. It has been tested and found to comply with the limits for a Class "B" computing device pursuant to Subpart B of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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

Industry Canada regulatory information

Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.

INSTRUCTIONS TO USERS: This equipment complies with the requirements of FCC equipment provided that the following conditions are met. If the cables include a EMI ferrite core, attach the ferrite core end of the cable to the projector. Use the cables which are included with the projector or specified.

Note: *Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

Complies with IDA Standards DA103121

CE Statement

Electromagnetic CompatibilityStatement: Meets 2014/30/EU Directive

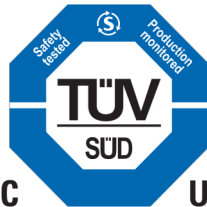
Low Voltage Directive: Meets 2014/35/EU Directive

WEEE Statement

The following information is only for EU-member States: The mark shown below is in compliance with Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE). The mark indicates the requirement NOT to dispose of the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



CTUVUS Statement



Donotstare into the beam

IEC60825-1:2014, EN 6082512014 A112021, EN 50689:2021 CLASS 1 CONSUMERLASER
PRODUCTRISK GROUP2, Complies with 21 CFR 1040.10 and 1040.11 except for conformance as
a Risk Group 2 LIPas defined in IEC 62471-5:Ed.1.0. For more information see Laser Notice No. 57,
dated May 8, 2019.
IEC60825-1:2014 等级1雷射产品RG2危险等级
IEC60825-1:20141 类激光产品RG2危险等级

WARNING: MOUNT ABOVE THE HEADS OF CHILDREN
AVERTISSEMENT MONTER AU-DESSUS DES TÊTES DES ENFANTS
ACHTUNG: ÜBER DEN KÖPFEN VON KINDERN MONTIEREN
ADVERTENCIA: MONTAR POR ENCIMA DE LAS CABEZAS DE LOS NIÑOS
ВНИМАНИЕ: КРЕПЛЕНИЕ НАД ГОЛОВАМИ ДЕТЕЙ
CẢNH BÁO: GẮN TRÊN ĐẦU TRẺ EM
警告: 请将其安装在儿童的头顶上
Additional warning against eye exposure for close exposures of less than 1m
Avertissement supplémentaire contre l'exposition oculaire pour les expositions rapprochées inférieures à 1 m
Zusätzliche Warnung vor Augenexposition bei einer Entfernung von weniger als 1 m
Advertencia adicional contra la exposición de los ojos para exposiciones cercanas de menos de 1 m
Дополнительное предупреждение о воздействии на глаза при близком расстоянии менее 1 м.
Cảnh báo bổ sung chống tiếp xúc với mắt khi phơi sáng ở khoảng cách gần dưới 1m
1 米以内的近距离接触应避免眼睛接触

This product is classified as CLASS 1 LASER PRODUCT - RISK GROUP 2 of IEC60825-1 : 2014 and also complies with 21 CFR 1040.10 and 1040.11 as a Risk Group 2, LIP (Laser Illuminated Projector) as defined in IEC 62471:5:Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.

Additional instructions to supervise children, no staring, and not use optical aids.

Notice is given to supervise children and to never allow them to stare into the projector beam at any distance from the projector.

Notice is given to use caution when using the remote control for starting the projector while in front of the projection lens.

Notice is given to the user to avoid the use of optical aids such as binoculars or telescopes inside the beam.

When turning on the projector, make sure no one within projection range is looking at the lens.

Keep any items (magnifying glass etc.) out of the light path of the projector. The light path being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause an unpredictable outcome such as a fire or injury to the eyes.

Any operation or adjustment not specifically instructed by the user's guide creates the risk of hazardous laser radiation exposure.

Do not open or disassemble the projector as this may cause damage by the exposure of laser radiation.

Do not stare into beam when the projector is on. The bright light may result in permanent eye damage.

Without following the control, adjustment or operation procedure may cause damage by the exposure of laser radiation

Do not stare into beam, RG2

As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.



CAUTION! Hot surface. Do not touch



Do not place your hands, face or other objects in front of the projector lens while the projector is operating. Doing so can cause the object to get extremely hot, and possibly resulting in a fire or damage due to the heat emitted from the light output. Things placed in front of the lens may overheat and burn or start a fire.

Do not spray flammable gas to get rid of dust and dirt that accumulate in the lens. Doing so could cause a fire.

Light Beam Related Safety Labels and Location

Note: Spec label varies by region (for reference only).

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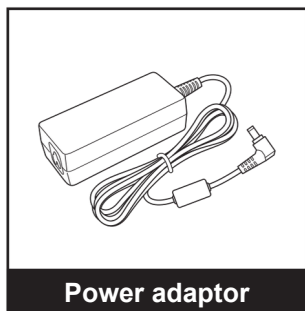
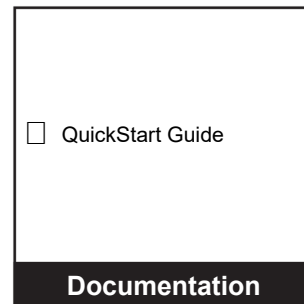
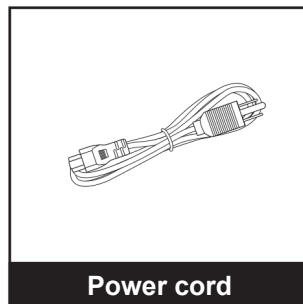
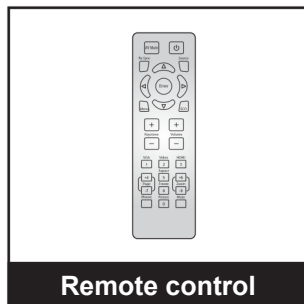
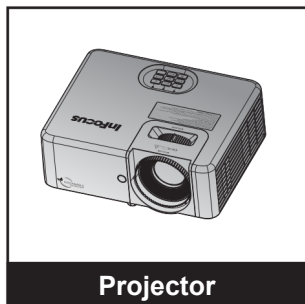
INTRODUCTION

Package Overview

Carefully unpack the projector and verify that all standard accessories listed below are included. Some optional accessories may not be available depending on the model, specifications, or region of purchase. Please contact your place of purchase for availability details.

Accessories may vary by region. The warranty card is included only in selected regions. Please consult your dealer for more information.

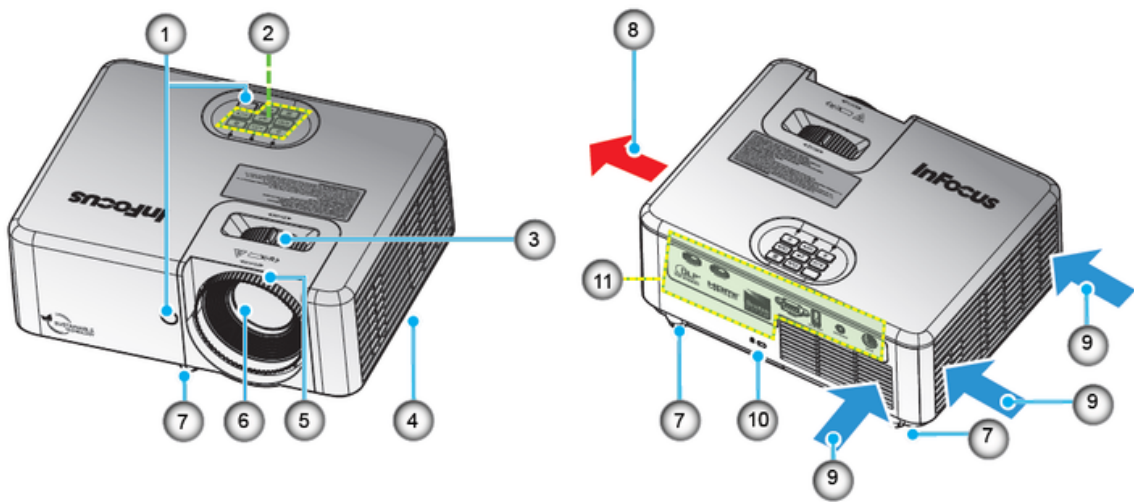
Standard accessories



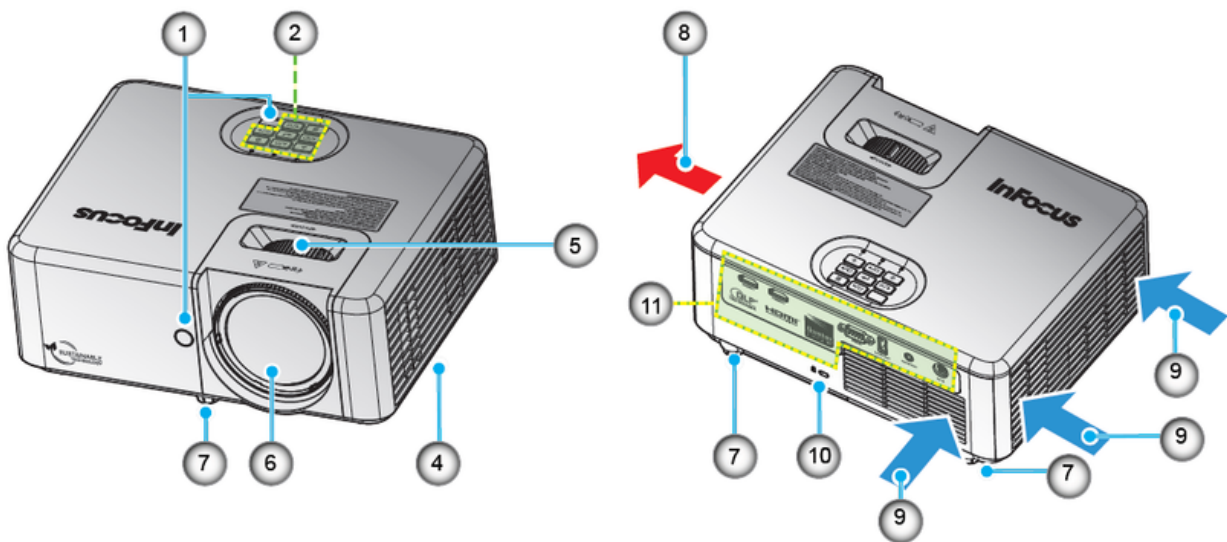
INTRODUCTION

Product Overview

IN1106SL/IN1108SL



IN1108ST



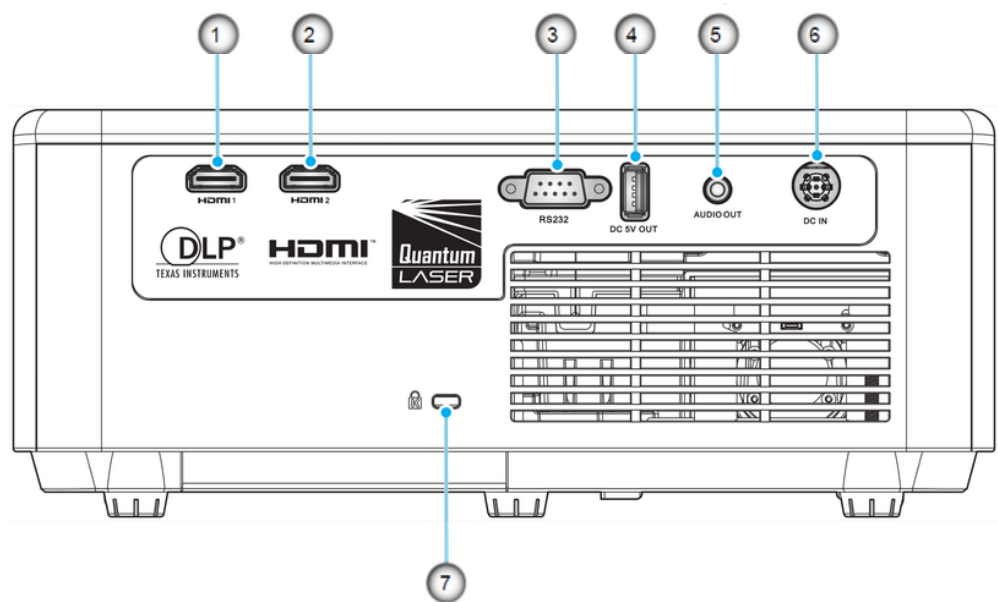
Note:

Do not block projector intake and exhaust vents. When operating the projector in an enclosed space, allow at least 30 cm clearance around the intake and exhaust vents.

No	Item	No	Item
1.	IR Receivers	7.	Tilt-Adjustment Feet
2.	Keypad	8.	Ventilation (outlet)
3.	Zoom Ring	9.	Ventilation (inlet)
4.	Security Bar	10.	Kensington™ Lock Port
5.	Focus	11.	Input / Output
6.	Ring Lens		

INTRODUCTION

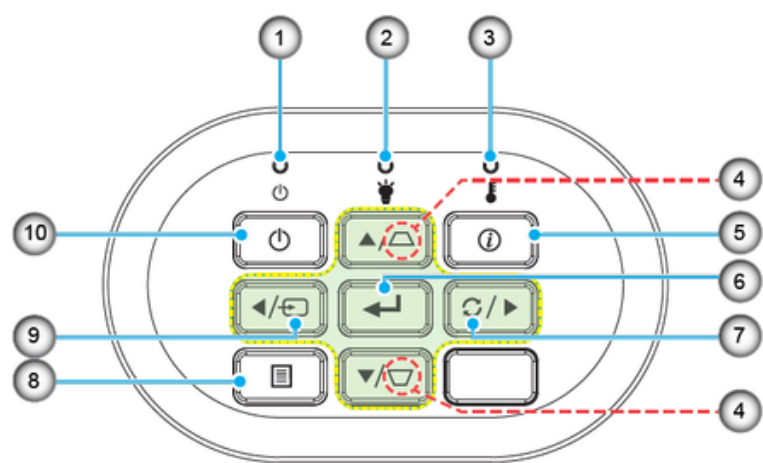
Connections



No	Item	No	Item
1.	HDMI 1 Connector	5.	AUDIO OUT Connector
2.	HDMI 2 Connector	6.	DC IN Connector
3.	RS232 Connector	7.	Kensington™ Lock Port
4.	USB Power Out (DC 5V) Connector		

INTRODUCTION

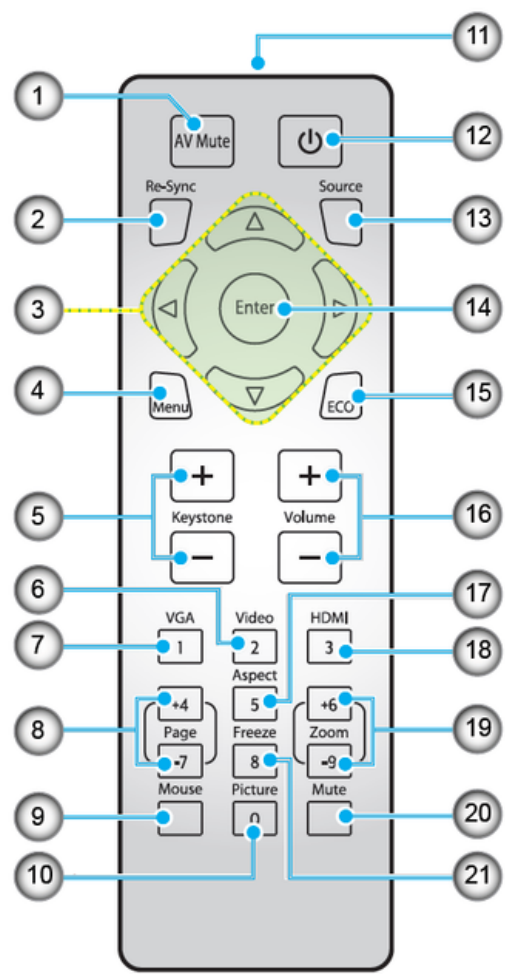
Keypad



No	Item	No	Item
1.	Power LED	6.	Enter
2.	Lamp LED	7.	Re-Sync
3.	Temp LED	8.	Menu
4.	Keystone Correction	9.	Source
5.	Information	10.	Power

INTRODUCTION

Remote control



No	Item	No	Item
1.	AV Mute	12.	Power
2.	Re-Sync	13.	Source
3.	Four Directional Select Keys	14.	Enter
4.	Menu	15.	ECO
5.	Keystone +/-	16.	Volume +/-
6.	Video (not supported)	17.	Aspect
7.	VGA	18.	HDMI
8.	Page +/- (not supported)	19.	Zoom +/-
9.	Mouse (not supported)	20.	Mute
10.	Picture	21.	Freeze
11.	IR LED		

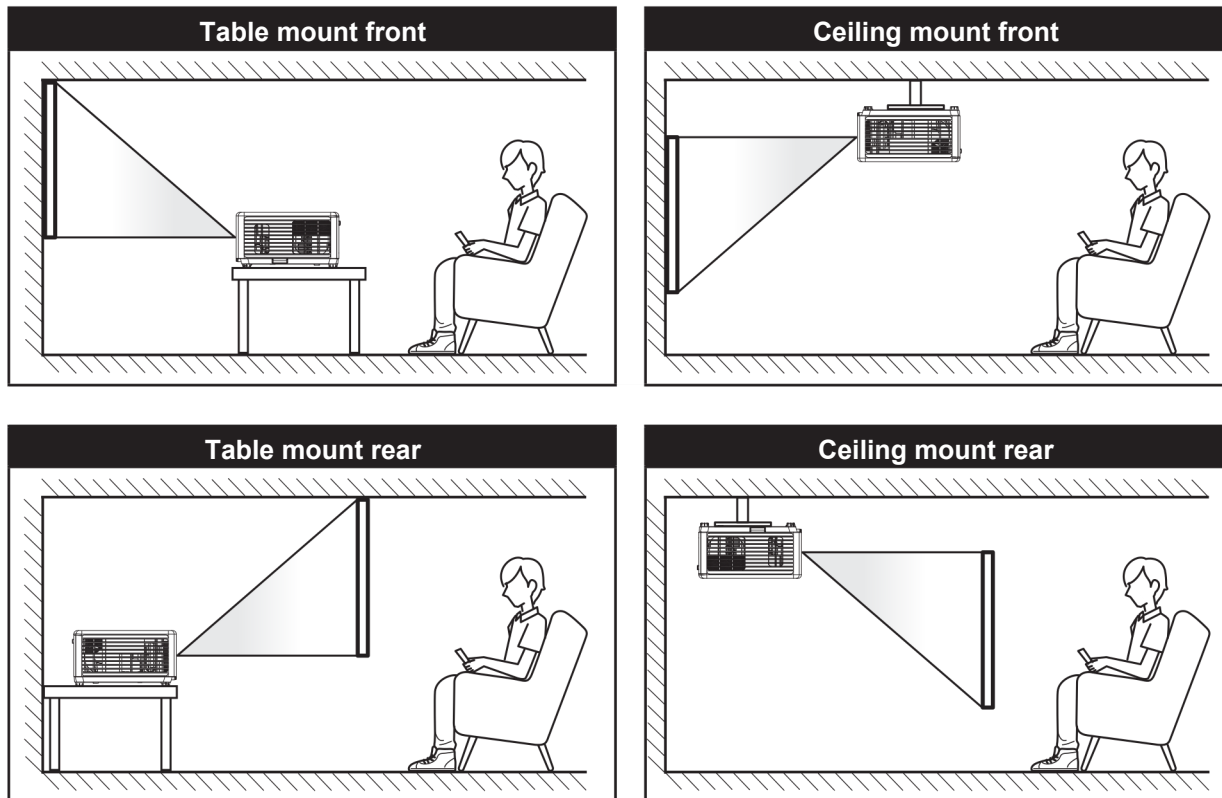
Note: Some keys may have no function for models that do not support these features.

SETUP AND INSTALLATION

Installing the projector

Your projector is designed to be installed in one of four possible positions.

Your room layout or personal preference will dictate which installation location you select. Take into consideration the size and position of your screen, the location of a suitable power outlet, as well as the location and distance between the projector and the rest of your equipment.



- Projector should be placed flat on a surface and 90 degrees / perpendicular to the screen.
- How to determine projector location for a given screen size, please refer to distance table on pages 45-46
- How to determine screen size for a given distance, please refer to distance table on pages 45-46.

Note: *The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.*

IMPORTANT!

Do not operate the projector in any orientation other than table top or ceiling mount. The projector should be horizontal and not tilted either forwards/backwards or left/right. Any other orientation will invalidate the warranty and may shorten the lifetime of the projector light source or the projector itself. For non-standard installation advice please contact InFocus.

SETUP AND INSTALLATION

Projector Installation Guidelines

To ensure proper operation and avoid damage to the equipment, adhere to the following installation requirements:

- Clearance:

1. When installing multiple units, keep 50 cm distance between air inlets/outlets.
2. The projector air inlet/outlet should be at least 30 cm away from obstacles or walls to ensure heat dissipation
3. Air outlets from HVAC systems must not blow directly into the projector's air inlet or outlet. Airflow interference can reduce cooling efficiency. A minimum clearance of 100 cm is recommended.
4. Bottom intake gap with ceiling mount plate - keep 3 cm (30mm) at least.

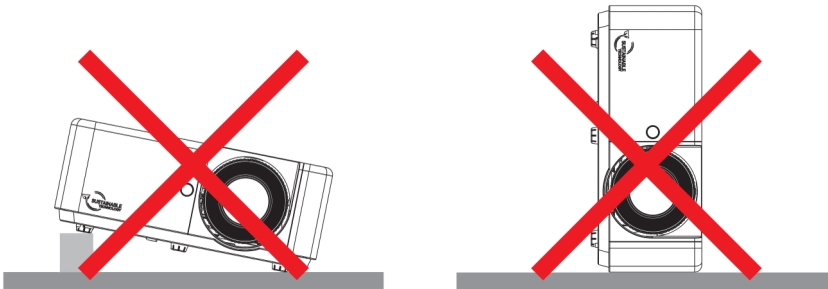
- Others:

1. Laser light or Laser Beam must not enter the projector lens.

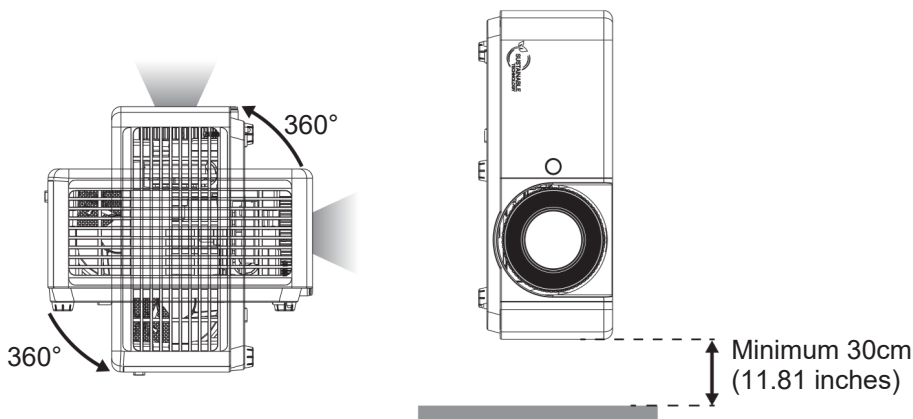
Projector installation notice

- Place the projector in a horizontal position.

The tilt angle of the projector should not exceed 15 degrees, however, portrait installation is allowed. The projector should not be installed in any way other than the desktop and ceiling mount, otherwise laser life could decrease dramatically, and may lead to other **unpredictable damage**.

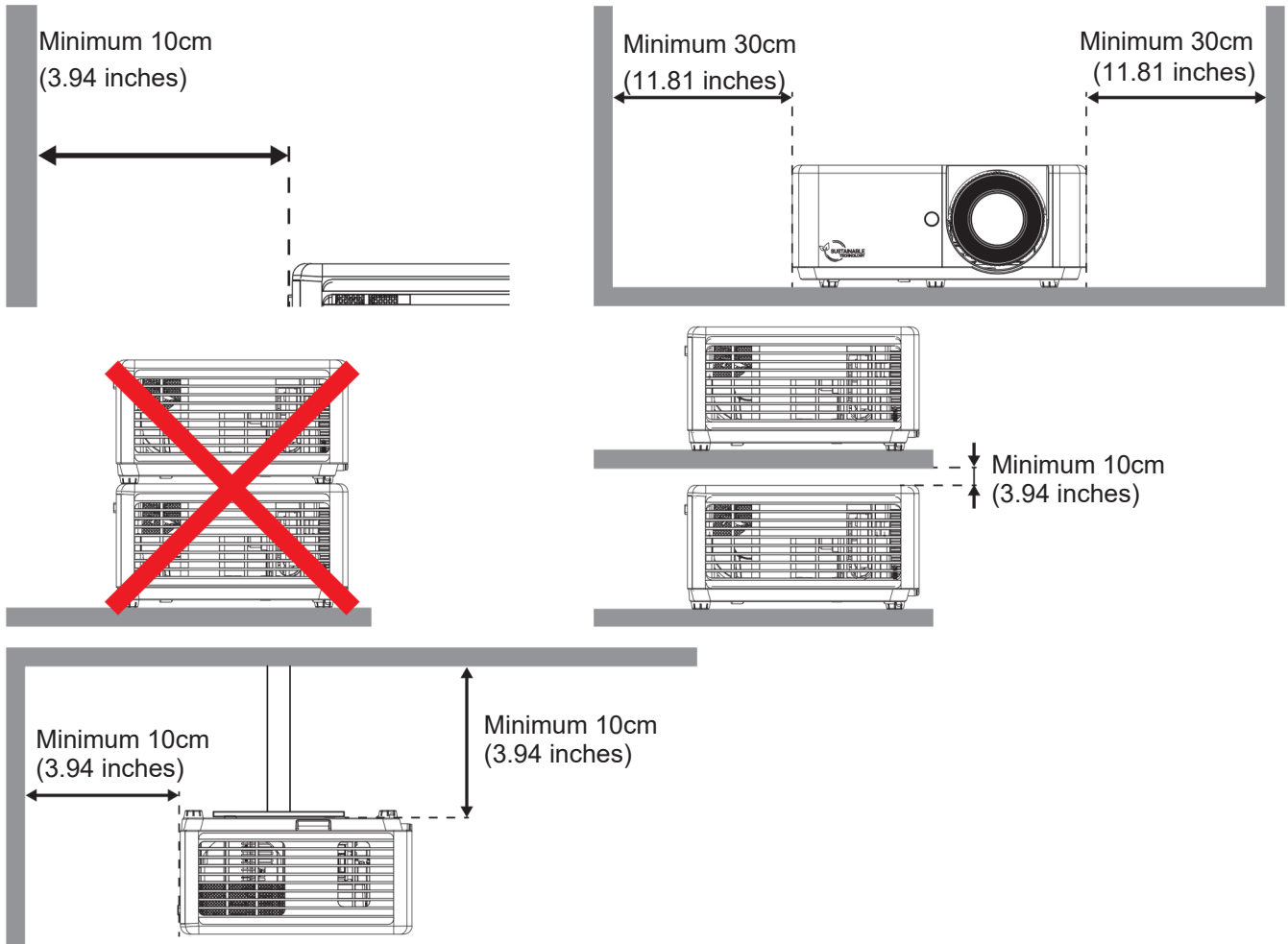


When the projector is installed in 360° / portrait upright position, make sure the intake and exhaust vents are unobstructed and there is at least 30cm clearance around the vents.



SETUP AND INSTALLATION

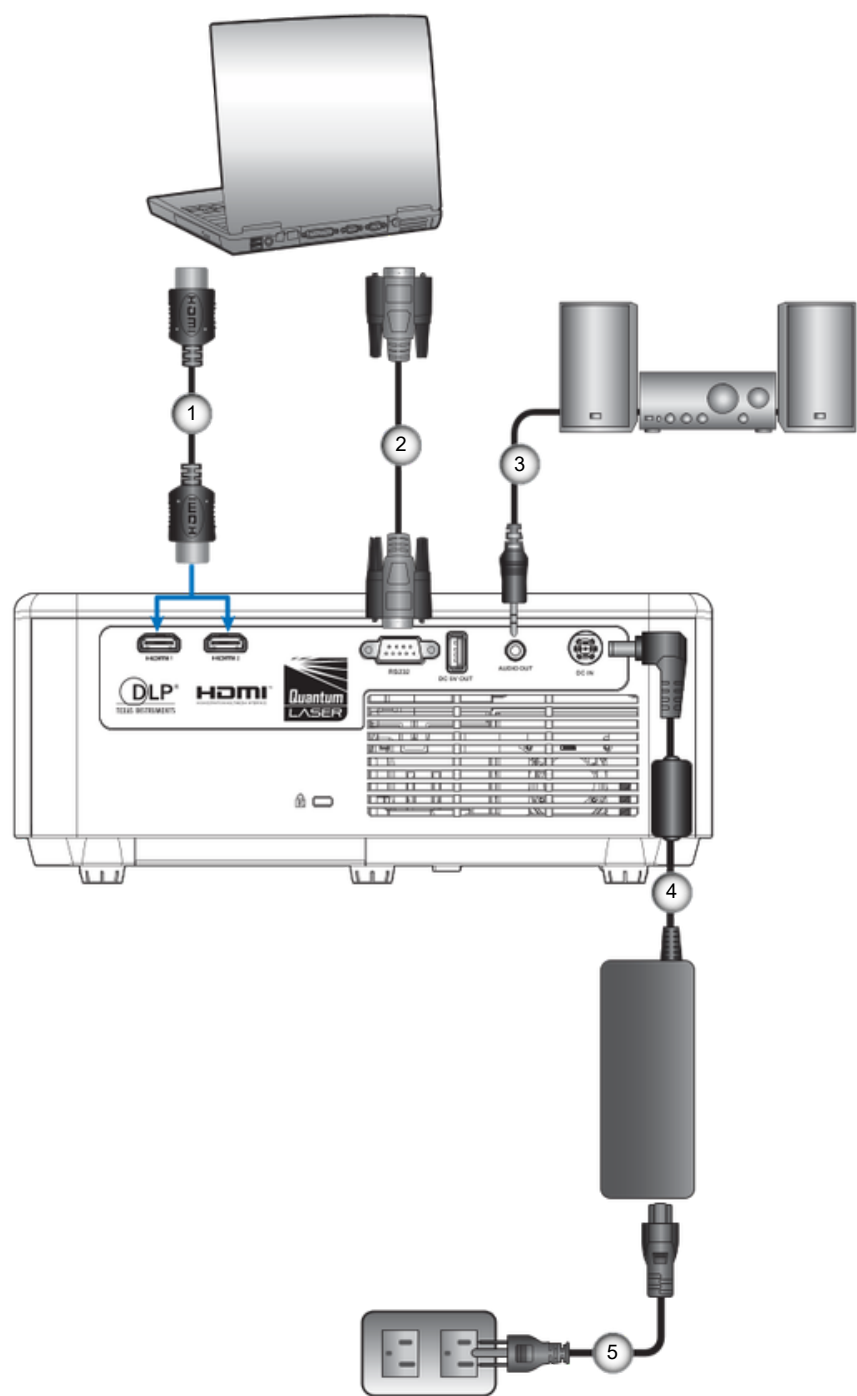
- Allow at least 30cm clearance around the intake and exhaust vents.



- Ensure that the intake vents do not recycle hot air from the exhaust vent.
- When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed operation temperature while the projector is running, and the air intake and exhaust vents are unobstructed.
- All enclosures should pass a certified thermal evaluation to ensure that the projector does not recycle exhaust air, as this may cause the device to shutdown even if the enclosure temperature is within the acceptable operation temperature range.

SETUP AND INSTALLATION

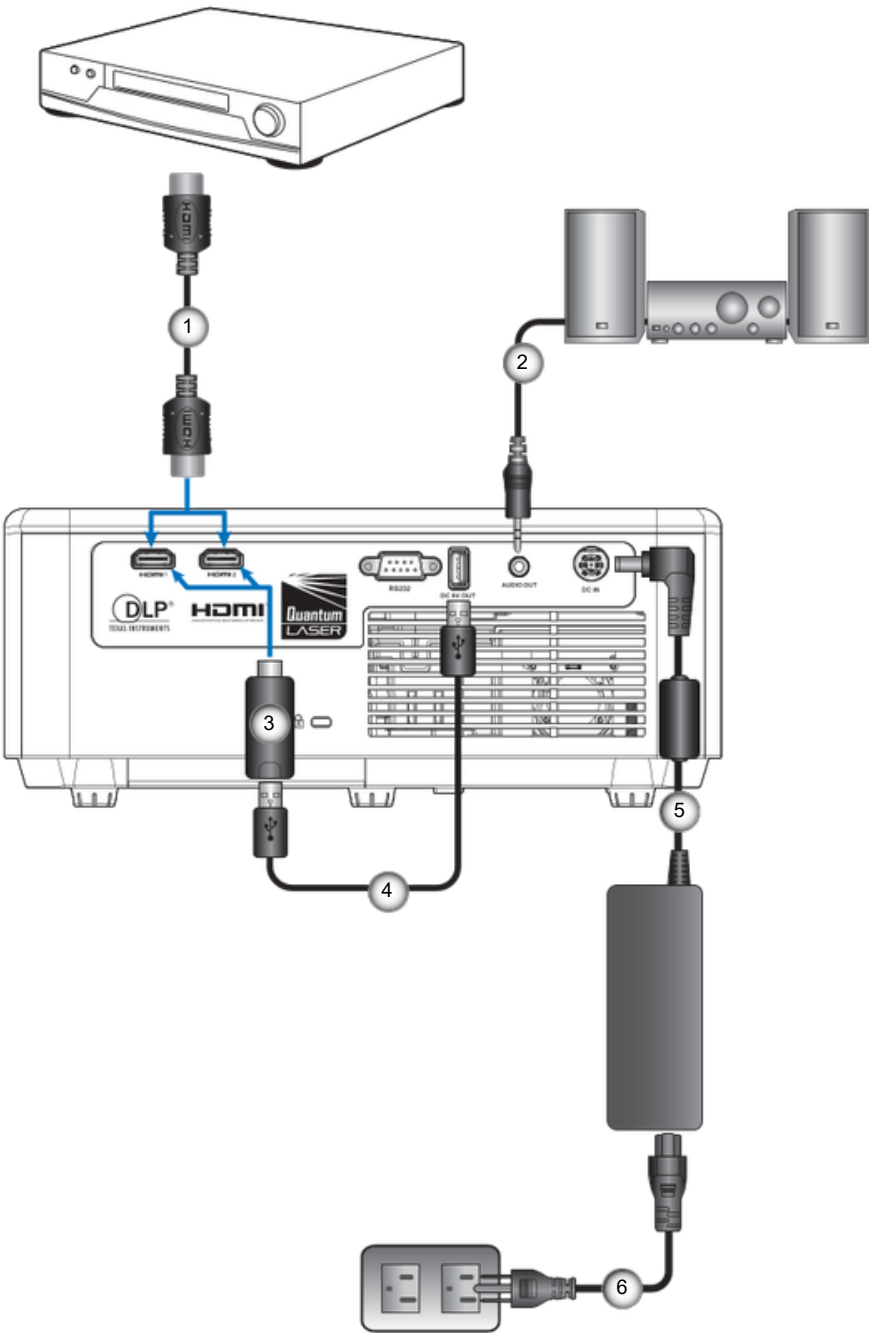
Connecting to a computer



No	Item	No	Item
1.	HDMI Cable	4.	DC Jack
2.	RS232 Cable	5.	Power Cord
3.	Audio Out Cable		

SETUP AND INSTALLATION

Connecting to a DVD player



No	Item	No	Item
1.	HDMI Cable	4.	USB Power Cable
2.	Audio Out Cable	5.	DC Jack
3.	HDMI Dongle	6.	Power Cord

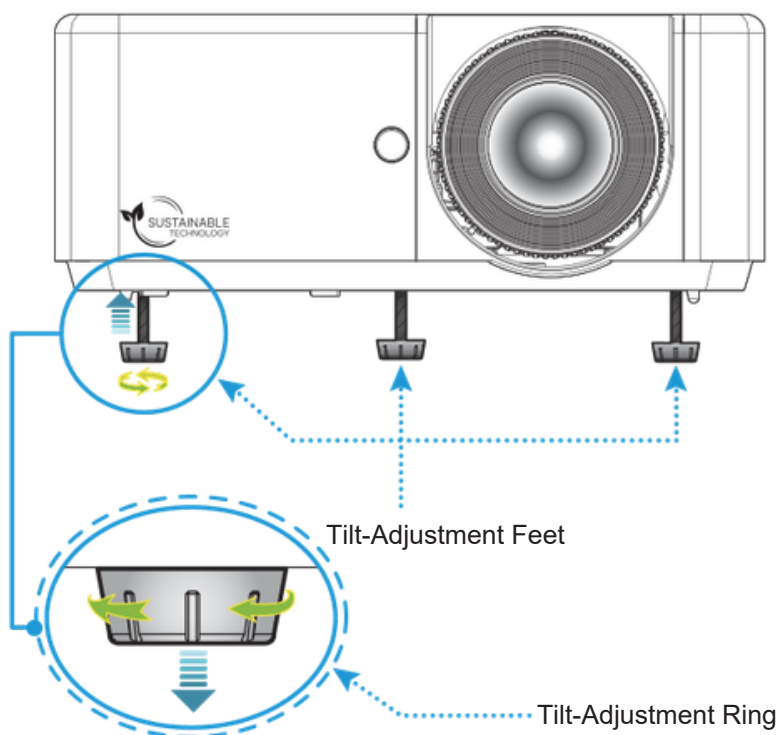
SETUP AND INSTALLATION

Adjusting the projector image

Image height

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

1. Locate the adjustable foot you wish to adjust on the underside of the projector.
2. Rotate the adjustable foot clockwise or counterclockwise to raise or lower the projector.

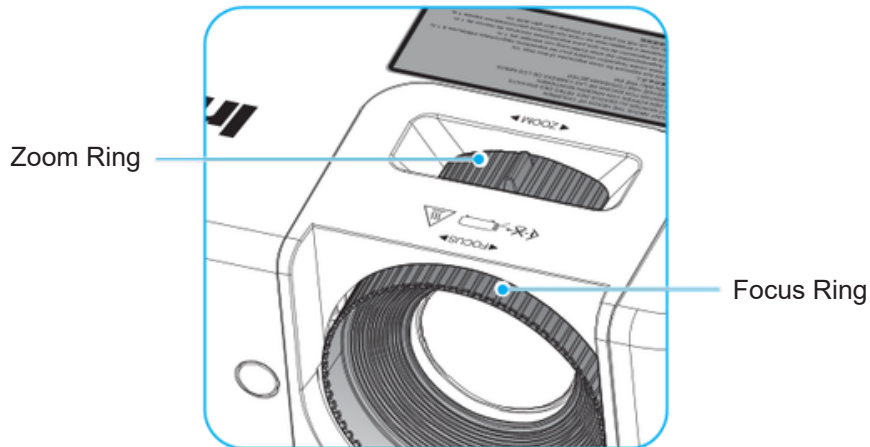


SETUP AND INSTALLATION

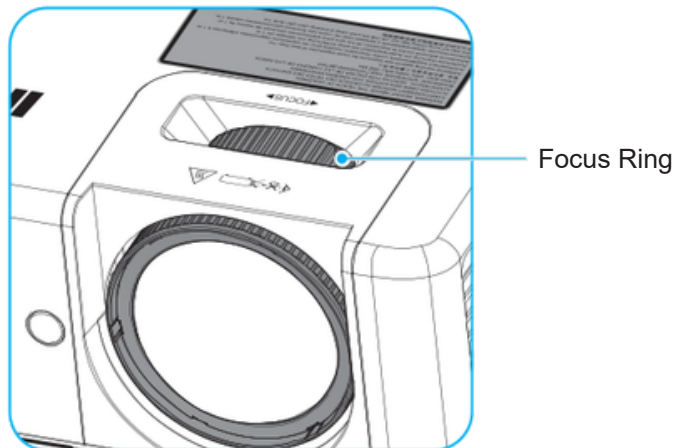
Zoom, focus, and lens shift

- To adjust the image size, turn the zoom ring clockwise or counterclockwise to increase or decrease the projected image size. (IN1106SL & IN1108SL models)
- To adjust the focus, turn the focus ring clockwise or counterclockwise until the image is sharp and legible.

IN1106SL & IN1108SL



IN1108ST



Note: Ensure that the projection screen is within the required distance from the projector.
Please refer to “Image size and projection distance” for more information.

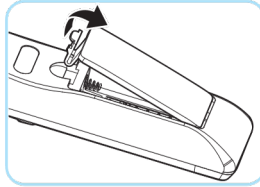
SETUP AND INSTALLATION

Remote setup

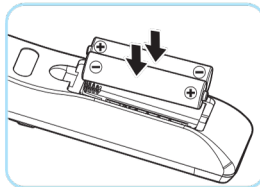
Installing / replacing the batteries

Two AAA size batteries are required. (Not included)

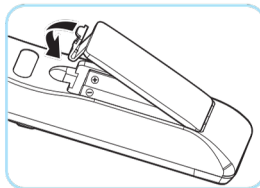
1. Push the clip to release the battery cover.



2. Install new batteries (AAA/R03). Ensure that you have the batteries' polarity (+/-) aligned correctly.



3. Close the battery cover and press it down until it clicks into place.



Note: Do not mix different types of batteries or new and old batteries.

CAUTION

To ensure safe operation, please observe the following precautions:

- Use AAA/R03 type batteries.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the batteries have leaked in the remote control, carefully wipe the case clean and install new batteries.
- There is a risk of explosion if the batteries are replaced with the wrong type.
- Dispose of used batteries according to the instructions.
- Remove the batteries from the remote control when not using for extended periods.
- The remote control may fail to operate if the infrared remote sensor is exposed to bright sunlight or fluorescent lighting.

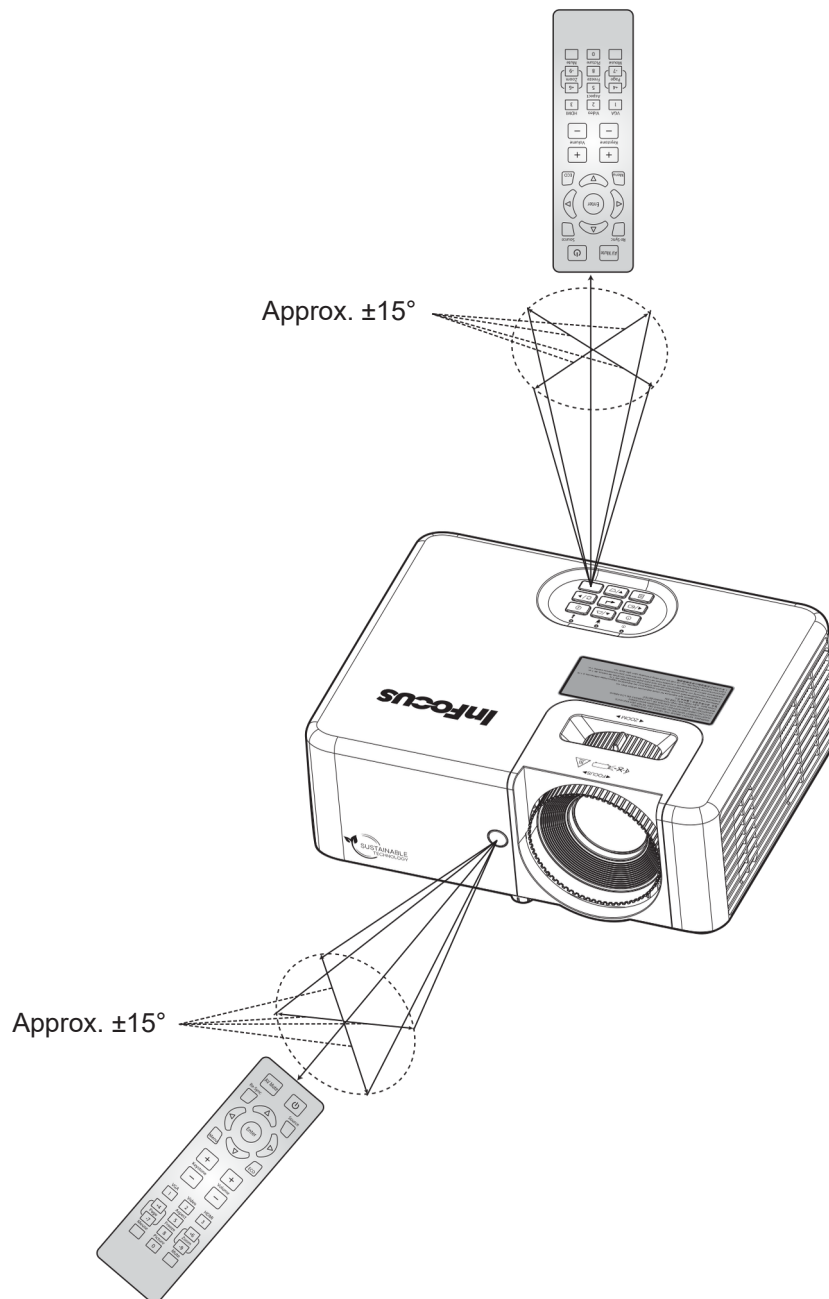
SETUP AND INSTALLATION

Effective range

Infra-Red (IR) remote control sensor is located in front and on top of the projector. Ensure to hold the remote control at an angle within 30° perpendicular to the projector's IR remote control sensors to function correctly. The distance between the remote control and the sensor should not be longer than 6 meters (~19 feet).

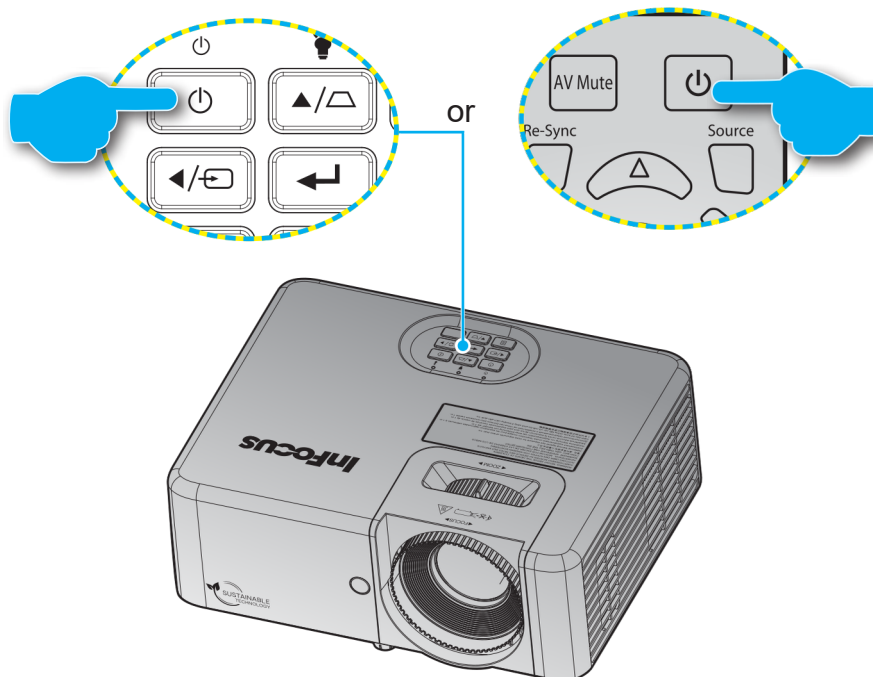
Note: When pointing the remote control directly (0 degrees angle) on the IR sensor, the distance between the remote control and the sensor should not be longer than 8 meters (~26 feet).

- Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being illuminated by sunlight or fluorescent lamps directly.
- Keep the remote control more than 2 meters away from fluorescent lamps or it may not function.
- When you aim at the screen the effective distance is 5 meters or less from the remote to the screen then back to the projector. The range will be different based on the reflectivity of the screen.



USING THE PROJECTOR

Powering on / off the projector



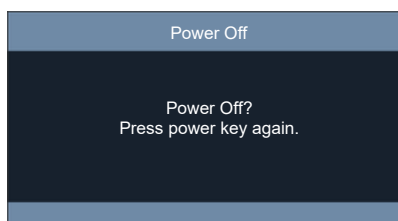
Powering on

1. Securely connect the signal/source cables. Then connect the power lead to the adaptor and the adaptor to the projector. When connected, the Power LED will turn red.
2. Turn on the projector by pressing the "⏻" button on the projector keypad or remote control.
3. A start up screen will display in approximately 10 seconds and the Power LED will turn blue.

Note: The first time the projector is turned on, you will be prompted to select the preferred language, projection orientation, and other settings.

Powering off

1. Turn off the projector by pressing the "⏻" button on the projector keypad or remote control.
2. The following message will be displayed:



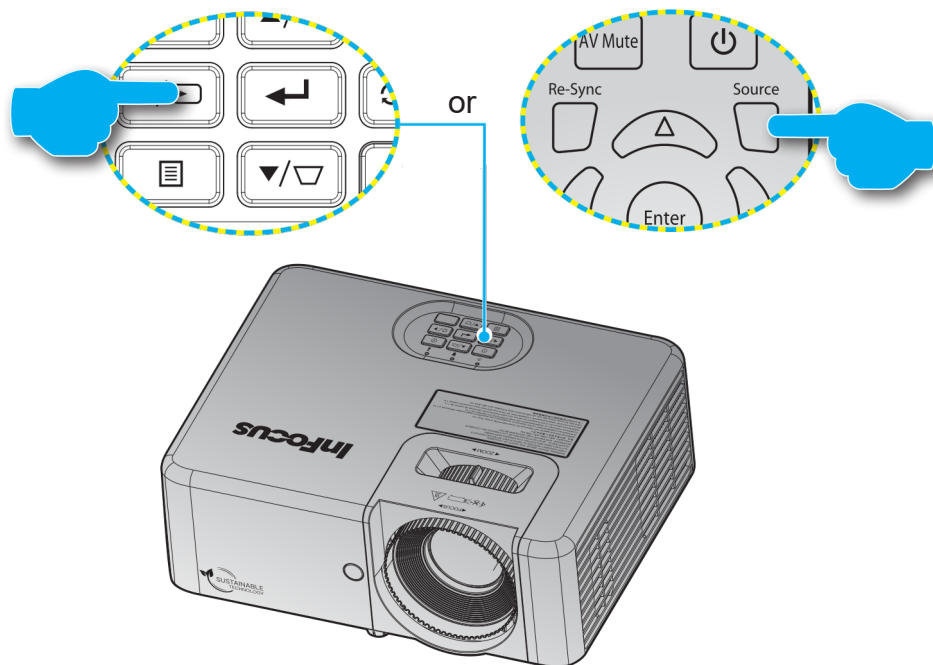
3. Press the "⏻" button again to confirm, otherwise the message will disappear after 10 seconds. When you press the "⏻" button for the second time, the projector will shut down.
4. When the Power turns solid red, this indicates the projector has entered standby mode. If you wish to turn the projector back on, you must wait until the cooling cycle has finished and the projector has entered standby mode. When the projector is in standby mode, simply press the "⏻" button again to turn on the projector.
5. Disconnect the power lead from the electrical outlet and the projector.

Note: It is not recommended to turn on the projector immediately after a power off procedure.

USING THE PROJECTOR

Selecting an input source

Turn on the connected source such as a computer, Blu-Ray player, etc. Press the  button on the keypad or the Source button on the remote control.



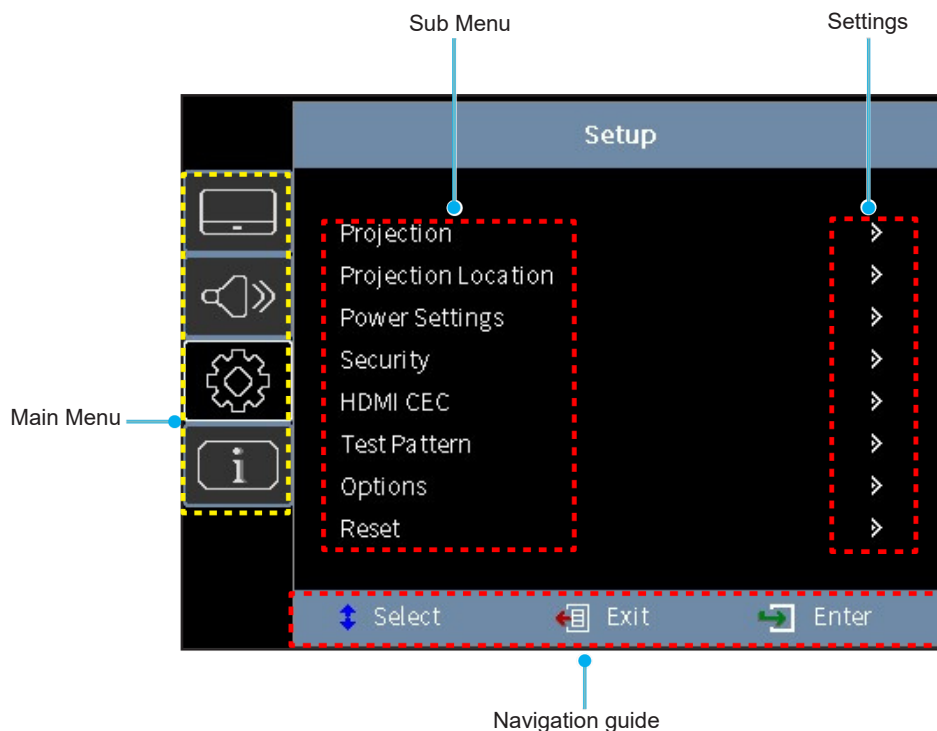
USING THE PROJECTOR

Menu navigation and features

The projector has multilingual onscreen display menus that allow you to make image adjustments and change a variety of settings.

1. To open the OSD menu, press the "☰" button on the projector keypad or the Menu button on the remote control.
2. When OSD is displayed, use ▲▼ keys to select any item in the main menu. While making a selection on a particular page, press the ↵ button on the projector keypad or the Enter button on the remote control to enter the sub menu.
3. Use ◀▶ keys to select the desired item in the sub menu and then press the ↵ or Enter button to view further settings. Adjust the settings by using ◀▶ keys.
4. Select the next item to be adjusted in the sub menu and adjust as described above.

Press the "↵" or Enter button to confirm, and the screen will return to the main menu. To exit, press the "☰" or Menu button again. The OSD menu will close and the projector will automatically save the new settings.



USING THE PROJECTOR

OSD Menu tree

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Display Mode			Presentation
					Bright
					HDR/HLG SIM. (1080P model only)
					Cinema
					Game
					User
					3D
		Brightness			-50 ~ 50
		Contrast			-50 ~ 50
		Sharpness			1 ~ 15
		Color			-50 ~ 50
		Tint			-50 ~ 50
		Gamma			Film
					Video
					Graphics
					Standard (2.2)
		Color Settings	BrilliantColor™		1 ~ 10
			Color Temperature		Warm
					Standard
					Cold
			Color Matching	Color	Red [Default]
					Green
					Blue
					Cyan
					Yellow
					Magenta
					White
				Hue / R	-50 ~ 50
				Saturation / G	-50 ~ 50
				Gain / B	-50 ~ 50
				Reset	
				Exit	
			Color Space	(Non-HDMI signal)	Auto [Default]
					RGB
					YUV
				(HDMI signal)	Auto [Default]
					RGB (0~255)
					RGB (16~235)
					YUV
		Brightness Mode			DynamicBlack
					Eco
					Power 100% ~ 40% [Default: 100%]
		Reset			

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	3D	3D Mode			On
					Off [Default]
		3D Format			Auto [Default]
					SBS
					Top and Bottom
					Frame Sequential
		3D Sync Invert			On
					Off [Default]
	Aspect Ratio				Auto [Default]
					4:3
					16:9
					Full
					L. Box
	Zoom				-5 ~ 25 [Default: 0]
	Image Shift				H: -100 ~ 100 [Default: 0]
					V: -100 ~ 100 [Default: 0]
	Enhance Gaming (1080P model only)				Off [Default]
					On
	Keystone	Four Corners			
		H Keystone			+/- 30 degree for RT models [Default: 0] +/- 15 degree for ST Models [Default: 0]
		V Keystone			+/- 30 degree for RT models [Default: 0] +/- 15 degree for ST models [Default: 0]
		Auto Keystone			Off [Default]
					On
		Reset			
Audio	Mute				On
					Off [Default]
	Volume				0 ~ 10 [Default: 5]

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Projection				Front  [Default]
					Rear 
	Projection Location				Auto
					Desktop 
					Ceiling 
	Power Settings	Auto Power On	AC Power On		Off [Default]
					On
		HDMI Power On			Off [Default]
					On
		Auto Shutdwon (min)			0 ~ 180 (min) [Default: 15]
	Security	Security			On
					Off [Default]
		Security Timer	Month		0 ~ 12 [Default: 0]
			Day		0 ~ 30 [Default: 0]
			Hour		0 ~ 24 [Default: 0]
		Change Password			0000~9999 [Default: 1234]
	HDMI CEC				On
					Off [Default]
	Test Pattern				Green Grid
					White
					Test Card
					Off [Default]

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Options	Language			English [Default]
					Deutsch
					Français
					Italiano
					Español
					Português
					Polski
					Nederlands
					Svenska
					Norsk/Dask
					Suomi
					繁體中文
					简体中文
					日本語
					한국어
					Русский
					Magyar
					Čeština
					عربي
					ไทย
					Türkçe
					Tiếng Việt
					Bahasa Indonesia
					Українська
		Auto Source			On
					Off [Default]
		High Altitude			On
					Off [Default]
		Logo			Default [Default]
					Neutral
	Reset				
Info	Serial Number				
	Source				
	Resolution				
	Refresh Rate				
	Display Mode				
	Light Source				
	Hours				
	Brightness Mode				
	FW Version	System			
		MCU			

Note: Functions vary depending on model definition.

USING THE PROJECTOR

Display menu

Display image settings menu

Display Mode

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

Presentation: This mode is suitable for showing in front of public in connection to the PC.

Bright: Maximum brightness from any source.

HDR/HLG SIM.: Decodes and displays High Dynamic Range (HDR) / Hybrid Log Gamma (HLG) content for the deepest blacks, brightest whites, and vivid cinematic color using REC.2020 color gamut.

This mode will be automatically enabled if HDR/HLG is set to Auto (and HDR/HLG Content is sent to projector – 4K UHD Blu-ray, 1080p/4K UHD HDR/HLG Games, 4K UHD Streaming Video). While HDR/HLG mode is active, other display modes (Cinema, etc.) cannot be selected as HDR/HLG delivers color that is highly accurate, exceeding the color performance of the other display modes.

Note: This option is only available in 1080p model.

Cinema : Provides the best colors for watching movies.

Game : Optimizes your projector for maximum contrast and vivid colors allowing you to see shadow detail when playing video games.

User : Saved user's settings.

3D : To experience 3D you need DLP-Link 3D glasses and video source capable of sending 3D content.

Brightness

Adjust the brightness of the image.

Contrast

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

Sharpness

Adjust the Sharpness of a Video source.

Color

Adjust a Video source from black and white to fully saturated color.

Tint

Adjust the color balance of a Video source between red and green.

Gamma

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.

Graphics: For PC / Photo source.

Standard (2.2): For standardized setting.

Note: These options are only available if the 3D mode function is disabled and the Display Mode setting is not set to **HDR/HLG SIM.**

In 3D mode, user can only select 3D for Gamma setting.

If the Display Mode setting is set to HDR/HLG SIM., user can only select HDR/HLG SIM for Gamma setting.

USING THE PROJECTOR

Color Settings

Configure the color settings.

BrilliantColor™: Adjust the intensity of color enhancement.

Color Temperature: Select a color temperature from Cold, Warm, or Standard.

Color Matching: Adjust overall image tone using Color, Hue, Saturation, and Gain for precise color balance.

Color Space (non-HDMI input only): Select an appropriate color matrix type from the following: AUTO, RGB, or YUV.

Color Space (HDMI input only): select an appropriate color matrix type from the following: Auto, RGB (0-255), RGB (16-235), and YUV.

Brightness Mode

Adjust the brightness mode settings.

DynamicBlack: Automatically adjusts the brightness based on the source signal for optimum contrast performance.

Eco: Energy Saving Mode (Eco = 70~80% Power).

Power: Select the power percentage to adjust the overall brightness.

Reset

Return the factory default settings for color settings.

Display 3D menu

- Note:**
- *This projector is a 3D ready projector with DLP-Link 3D solution.*
 - *Please make sure your 3D glasses are use for DLP-Link 3D before enjoy your video.*
 - *Supports Frame Sequential (page flip), Side-by-Side (SDS) and Top Bottom 3D video formats.*
 - *To enable 3D mode, the input frame rate should be set to 60Hz only, lower or higher frame rate is not supported.*
 - *To reach the best performance, resolution 1920x1080 is recommended, please be noted that 4K (3840x2160) resolution is not supported in 3D mode.*
 - *3D from a Blu-Ray 3D is detected and displayed automatically.*

3D Mode

Use this option to disable the 3D function or select the appropriate the 3D function.

On: Select "On" to turn on 3D mode.

Off: Select "Off" to turn off 3D mode.

Note: *If 2D and 3D sources are both connected, turn off 3D when selecting the 2D source.*

3D Format

Use this option to select the appropriate 3D format content.

Auto: When a 3D identification signal is detected, the 3D format is selected automatically.

SBS: Display 3D signal in "Side-by-Side" format.

Top and Bottom: Display 3D signal in "Top and Bottom" format.

Frame Sequential: Display 3D signal in "Frame Sequential" format.

USING THE PROJECTOR

3D Sync Invert

Select whether the right or left eye of the glasses synchronizes first.

Display aspect ratio menu

Aspect Ratio

Select the aspect ratio of the displayed image between the following options:

- **Auto:** Automatically selects the appropriate display format.
- **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.
- **Full:** Resize image to fit full screen.
- **L. Box:** Zoom in x1.333 but keep its original image aspect ratio.

Note: *Detailed information about LBX mode:*

- *Some Letter-Box Format DVDs are not enhanced for 16x9 TVs. In this situation, the image will not look right when displaying the image in 16:9 mode. In this situation, please try to use 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.*
-
- *When using an external anamorphic lens, the LBX mode allows you to watch 2.35:1 content, including Anamorphic DVD and HDTV film sources. In this case there are no black bars, light source power and vertical resolution are fully utilized.*

USING THE PROJECTOR

WXGA scaling table:

16 : 10 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 1066x800.				
16x10	Scale to 1280x800.				
LBX	Scale to 1280x960, then get the central 1280x800 image to display.				
Full	Resize image to fit full screen				
Auto	- Input source will be fit into 1280x800 display area and be kept its original aspect ratio. - If source is 4:3, auto resize to 1066 x 800. - If source is 16:9 auto resize to 1280 x 720. - If source is 15:9 auto resize to 1280 x 768. - If source is 16:10 auto resize to 1280 x 800.				

WXGA auto mapping rule:

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1280	800
4:3	640	480	1066	800
	800	600	1066	800
	1024	768	1066	800
	1280	1024	1066	800
	1400	1050	1066	800
	1600	1200	1066	800
Wide Laptop	1280	720	1280	720
	1280	768	1280	768
	1280	800	1280	800
SDTV	720	576	1280	720
	720	480	1280	720
HDTV	1280	720	1280	720
	1920	1080	1280	720

1080P scaling table:

16 : 9 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 1440x1080.				
16x9	Scale to 1920x1080.				
LBX	Scale to 1920x1440, then get the central 1920x1080 image to display.				
Full	Resize image to fit full screen.				
Auto	• If this format is select, screen type will auto become 16:9 (1920x1080). • If source is 4:3, auto resize to 1440 x1080. • If source is 16:9 auto resize to 1920x1080. • If source is 16:10 auto resize to 1920 x 1200 and cut 1920x1080 area to display.				

USING THE PROJECTOR

1080P auto mapping rule:

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1920	1080
4:3	640	480	1440	1080
	800	600	1440	1080
	1024	768	1440	1080
	1280	1024	1440	1080
	1400	1050	1440	1080
	1600	1200	1440	1080
Wide Laptop	1280	720	1920	1080
	1280	768	1800	1080
	1280	800	1728	1080
SDTV	720	576	1350	1080
	720	480	1620	1080
HDTV	1280	720	1920	1080
	1920	1080	1920	1080

USING THE PROJECTOR

Display zoom menu

Zoom

Use to reduce or magnify an image on the projection screen.

Note: *Panfunctions are not supported.*

Image Shift

Use to move the projected image vertically or horizontally without distortion.

Note: *Not available if Four Corners and 3D mode are enabled.*

Enhance Gaming

Use to optimize response time and image performance for smoother and more responsive gameplay.

Note: *Supports 1920x1080 60/120Hz & 4k 60Hz*

Display keystone menu

Four Corners

This setting allows the projected image to be adjusted from each corner to make a square image when the projection surface is not level.

H Keystone

Adjust image distortion horizontally and make a squarer image. Horizontal keystone is used to correct a keystone image shape in which the left and right borders of the image are unequal in length. This is intended for use with horizontally on-axis applications.

V Keystone

Adjust image distortion vertically and make a squarer image. Vertical keystone is used to correct a keystone image shape in which the top and bottom are slanted to one of the sides. This is intended for use with vertically on-axis applications.

Auto Keystone

Automatically adjust image distortion, keeping edges straight and rectangular.

Reset

Return all keystone settings to factory default settings.

Audio menu

Audio mute menu

Mute

Use this option to temporarily turn off the sound.

On: Choose "On" to turn mute on.

Off: Choose "Off" to turn mute off.

Note: "Mute" function affects both internal and external speaker volume.
When "Mute" is On, you will see the associated icon on top-right side of the screen.

Audio volume menu

Volume

Adjust the speaker or microphone volume level.

USING THE PROJECTOR

Setup menu

Setup projection menu

Projection

Select the preferred projection mode from Front or Rear.

Projection Location

Select the projection location: Auto, Desktop or Ceiling.

Setup power settings menu

Auto Power On

Choose “On” to activate Auto Power mode. The projector will automatically power on when AC power is supplied, without pressing the “Power” key on the projector keypad 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).

Setup security menu

Security

Enable this function to prompt for a password before using the projector.

On: Choose “On” to use security verification when turning on the projector.

Off: Choose “Off” to be able to switch on the projector without password verification.

Security Timer

Opens the Month/Day/Hour function to set the number of hours the projector can be used. Once the set time is elapsed the password will be required to use the projector.

Change Password

Sets or modifies the security password.

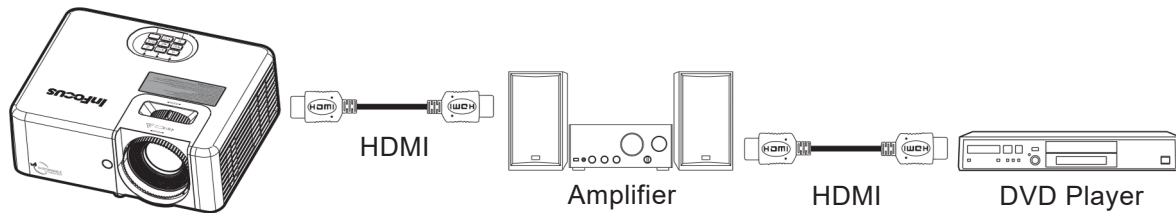
Note: Password default value is “1234” (first time).

USING THE PROJECTOR

Setup HDMI CEC menu

Note:

When you connect HDMI CEC-compatible devices to the projector with HDMI cables, you can control them on the same power on or power off status using the HDMI Link control feature in the projector's OSD. This lets one device or multiple devices in a group power on or power off via HDMI Link Feature in a typical configuration, your DVD player may be connected to the projector through an amplifier or home theater system.



HDMI CEC

Default is Off. Select "On" to enable HDMI CEC function.

Setup test pattern menu

Test Pattern

Select the test pattern from green grid, white, test card or off.

Setup options menu

Language

Select the multilingual OSD menu between English, German, French, Italian, Spanish, Portuguese, Polish, Dutch, Swedish, Norwegian/Danish, Finnish, traditional Chinese, simplified Chinese, Japanese, Korean, Russian, Hungarian, Czechoslovak, Arabic, Thai, Turkish, Vietnamese, Indonesian, and Ukrainian.

Auto Source

Choose this option to let the projector automatically find an available input source.

Off: The projector will only search the current input selection. Press the **Source** button on the keypad or on the remote to display a list of sources.

On: The projector automatically finds an available input source. Press the Source button on the keypad or on the remote to automatically detect the next source.

High Altitude

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

Logo

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

Default: The default startup screen.

Neutral: The screen will be the same as the background color setting.

Reset

Reset OSD settings except for the following items:

- Language, Projection, Projection Location, Security, Image Shift, Zoom, Keystone Settings, High Altitude and Light Source Hours

USING THE PROJECTOR

Info menu

View the projector information as listed below:

- Serial Number
- Source
- Resolution
- Refresh Rate
- Display Mode
- Light Source Hours
- Brightness Mode
- Firmware Version

ADDITIONAL INFORMATION

Firmware Upgrade Precautions

To ensure a successful firmware upgrade, please observe the following guidelines:

1. Before updating, ensure that the power and data cables are securely connected to the projector.
2. DO NOT power off, disconnect cable or any interruption operation during the upgrade process.
3. DO NOT close the update program or disconnect any cables until the checksum is fully displayed and confirmed.
4. If the projector fails to boot after the upgrade, repeat the firmware update process 2–3 times following the upgrade procedure.

Projector Setup Guidelines

Follow these procedures to ensure correct projector configuration:

1. During initial startup or first start, users must follow the on-screen instructions to complete the full setup process step-by-step, ensuring that all settings are properly saved.

Routine cleaning is essential to maintain optimal performance. Follow these instructions carefully:

1. Regularly clean dust accumulation from the projector's air inlets, outlets, and dust filters. During cleaning, do not blow dust into the internal components of the projector.
2. To clean the lens surface, ensure the projector has been powered off at least 30 minutes. Follow the cleaning procedures described in the User Manual or seek guidance from a qualified service technician.

Compatible resolutions

Input Signal for HDMI (WXGA)

Signal	Resolution	Refresh Rate (Hz)	Notes for Mac
VGA	640 x 480	60/67/72/85/120(*2)	Mac 60/72/85/
SVGA	800 x 600	56/60(*2)/72/85/120(*2)	Mac 60/72/85
XGA	1024 x 768	60(*2)/70/75/85/120(*2)	Mac 60/70/75/85
HDTV (720P)	1280 x 720	50/60(*2)	Mac 60
WXGA	1280 x 768	60/75/85	Mac 60/75/85
	1280 x 800	60/120(*2)	Mac 60
WXGA	1366 x 768	60	
SXGA	1280 x 1024	60/75/85	Mac 60/75
SXGA+	1400 x 1050	60	
UXGA	1600 x 1200	60	
HDTV (1080p)	1920 x 1080	24/50/60	Mac 60
WUXGA	1920 x 1200(*1)	60	Mac 60
	720 x 400	70	
	832 x 624	75	Mac 75
	1152 x 870	75	Mac 75

Note:

(*1) 1920 x 1200 @60hz only support RB (reduced blanking).

(*2) 3D timing for True 3D projector (option).

ADDITIONAL INFORMATION

Input Signal for HDMI (1080P)

Signal	Resolution	Refresh Rate (Hz)	Notes for Mac
VGA SVGA	640 x 480	60/120(*2)	Mac 60/72/85/
XGA	800 x 600	60(*2)/72/85/120(*2)	Mac 60/72/85
SDTV(480i)	1024 x 768	50/60(*2)/70/75/85/120(*2)	Mac 60/70/75/85
SDTV(480P)	720 x 480	60	
SDTV(576i)	720 x 480	60	
SDTV(576P)	720 x 576	50	
WSVGA(1024X600)	720 x 576	50	
HDTV(720p)	1024 x 600	60	
WXGA	1280 x 720	50(*2)/60(*2)	Mac 60
	1280 x 768	60/75/85	Mac 75
	1280 x 800	60/120(*2)	Mac 60
WXGA	1366 x 768	60	
WXGA+	1440 x 900	60	
SXGA	1280 x 1024	60/75/85	Mac 60/75
SXGA+	1400 x 1050	60	
UXGA	1600 x 1200	60	
HDTV(1080i)	1920 x 1080	50/60	
HDTV(1080p)	1920 x 1080	24/30/50/60	Mac 60
WUXGA	1920 x 1200(*1)	60	Mac 60
UHD(2160p)	3840 x 2160	24(*3)/25(*3)/30(*3)/50/60	
4K2K(2160p)	4096 x 2160	24(*3)/25/30/50/60	

Note:

(*1) 1920 x 1200 @60Hz only support RB (reduced blanking)

(*2) 3D timing for True 3D projector (Option)

ADDITIONAL INFORMATION

3D Timing (WXGA)

Input Resolutions	HDMI 3D Input (with 3D InfoFrame information)	Input timing	
		1280 X 720P @ 50Hz	Top - and - Bottom
		1280 X 720P @ 60Hz	Top - and - Bottom
		1280 X 720P @50Hz	Frame packing
		1280 X 720P @60Hz	Frame packing
		1920 X 1080i @50 Hz	Side- by-Side (Half)
		1920 X 1080i @60 Hz	Side- by-Side (Half)
		1920 X 1080P @24 Hz	Top - and - Bottom
		1920 X 1080P @24 Hz	Frame packing
	HDMI 3D Input (without 3D InfoFrame information)	1920 x 1080i @50Hz	Side-by-Side (Half) SBS mode is on
		1920 x1080i @ 60Hz	
		1280 x 720P @50Hz	
		1280 x 720P @60Hz	Top-and-Bottom TAB mode is on
		1920 x 1080i @50Hz	
		1920 x1080i @60Hz	
		1280 x 720P @50Hz	HQFS (3D format is Frame sequential)
		1280 x 720P @60Hz	
		480i	

Note:

- If 3D input is 1080p@24hz, the DMD should replay with integral multiple with 3D mode
- 1080i@25hz and 720p@50hz run in 100 Hz; other 3D timing run in 120 Hz
- 1080P@24hz runs 144Hz (XGA, WXGA, 1080p)/96Hz (WUXGA)
- For Triple Flash 3D mode support - DDP442x is limited to 1920 x 1080 input 3D sources due to ASIC buffer memory limitation. This means WUXGA@24Hz is not supported in triple flash mode (144Hz output rate). It can be processed in double flash mode (96Hz output rate) or the WUXGA input image can be cropped to 1080p before enabling 3D processing.

ADDITIONAL INFORMATION

3D Timing (1080P)

Input Resolutions	HDMI 3D Input (with 3D InfoFrame information)	Input timing	
		1280 X 720P @ 50Hz	Top - and - Bottom
		1280 X 720P @ 60Hz	Top - and - Bottom
		1280 X 720P @50Hz	Frame packing
		1280 X 720P @60Hz	Frame packing
		1920 X 1080i @50 Hz	Side- by-Side (Half)
		1920 X 1080i @60 Hz	Side- by-Side (Half)
		1920 X 1080P @24 Hz	Top - and - Bottom
		1920 X 1080P @24 Hz	Frame packing
	HDMI 3D Input (without 3D InfoFrame information)	1920 x 1080i @50Hz	Side-by-Side (Half) SBS mode is on
		1920 x1080i @ 60Hz	
		1280 x 720P @50Hz	
		1280 x 720P @60Hz	Top-and-Bottom TAB mode is on
		1920 x 1080i @50Hz	
		1920 x1080i @60Hz	
		1280 x 720P @50Hz	HQFS (3D format is Frame sequential)
		1280 x 720P @60Hz	
		480i	

Note:

- If 3D input is 1080p@24hz, the DMD should replay with integral multiple with 3D mode
- 1080i@25hz and 720p@50hz run in 100 Hz; other 3D timing run in 120 Hz
- 1080P@24hz runs 144Hz (XGA, WXGA, 1080p)/96Hz (WUXGA)
- For **Triple Flash 3D** mode support - DDP442x is limited to 1920 x 1080 input 3D sources due to ASIC buffer memory limitation. This means **WUXGA@24Hz** is not supported in triple flash mode (144Hz output rate). It can be processed in double flash mode (96Hz output rate) or the WUXGA input image can be cropped to 1080p before enabling 3D processing.

ADDITIONAL INFORMATION

Timing Table

WXGA - HDMI1 and HDMI2

B0/Established Timing	B0/Standard Timing		B0/Detail Timing	Supported Video Mode		B1/Detail Timing
	Resolution	Aspect Ratio		Resolution	Aspect Ratio	
720 x 400 @70Hz	1280 x 720 @60Hz	16:09	1280 x 800 @60Hz	1920x1080p @60Hz	16:09	1366x768 @60Hz
640 x 480 @60Hz	1280 x 800 @60Hz	16:10		1920x1080p @50Hz	16:09	1920X1080 @60Hz
640 x 480 @67Hz	1280x1024 @60Hz	5:04		640x480p @60Hz	4:03	
640 x 480 @72Hz	1600X1200 @60Hz	4:03		720x480p @60Hz	4:03	1920x1200(RB) @60Hz
640 x 480 @75Hz				720x480p @60Hz	16:09	
800 x 600 @56Hz	640x480 @120Hz	4:03		1280x720p @60Hz	16:09	
800 x 600 @60Hz	800x600 @120Hz	4:03		1920x1080i @60Hz	16:09	
800 x 600 @72Hz	1024x768 @120Hz	4:03		720(1440)x480i @60Hz	16:09	
800 x 600 @75Hz				720x576p @50Hz	4:03	
832 x 624 @75Hz				720x576p @50Hz	16:09	
1024 x 768 @60Hz				1280x720p @50Hz	16:09	
1024 x 768 @70Hz				1920x1080i @50Hz	16:09	
1024 x 768 @75Hz				720(1440)x576i @50Hz	16:09	
1280 x 1024 @75Hz				1920x1080p @24Hz	16:09	
1152 x 870 @75Hz						

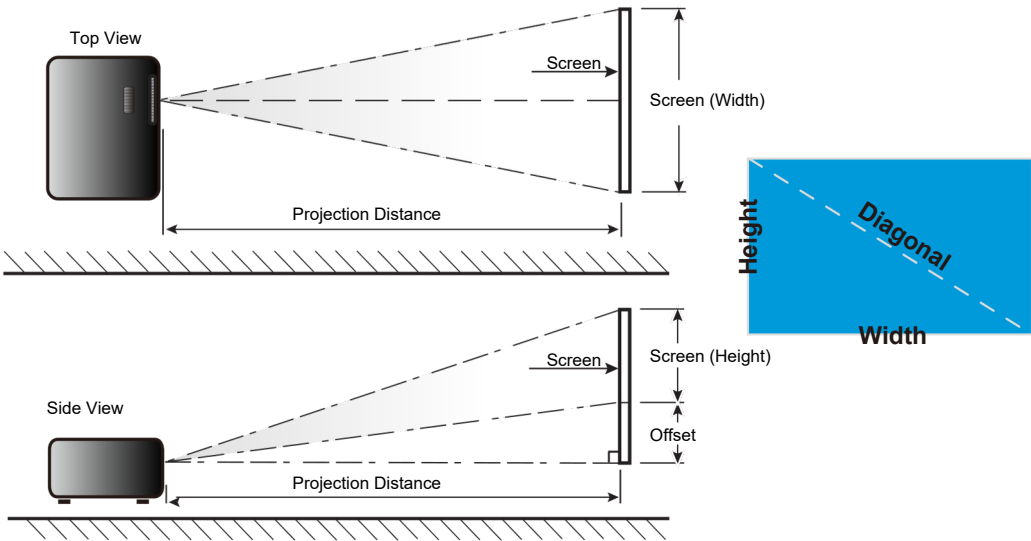
ADDITIONAL INFORMATION

1080P - HDMI1 and HDMI2

B0/Established Timing	B0/Standard Timing		B0/Detail Timing	Supported Video Mode		B1/Detail Timing
	Resolution	Aspect Ratio		Resolution	Aspect Ratio	
720 x 400 @70Hz	1280 x 720 @60Hz	16:09	1920 x 1080 @60Hz	3840 x 2160p @60Hz	16:09	1366x768 @60Hz
640 x 480 @60Hz	1280 x 800 @60Hz	16:10		3840 x 2160p @50Hz	16:09	1920X1080 @120Hz
640 x 480 @67Hz	1280x1024 @60Hz	5:04		1920 x 1080p @60Hz	16:09	1920x1200(RB) @60Hz
640 x 480 @72Hz	1600X1200 @60Hz	4:03		1920 x 1080p @50Hz	16:09	
640 x 480 @75Hz	1280X800 @120Hz	16:10		720 x 480p @60Hz	16:09	
800 x 600 @56Hz	640x480 @120Hz	4:03		1280 x 720p @60Hz	16:09	
800 x 600 @60Hz	800x600 @120Hz	4:03		1920 x 1080i @60Hz	16:09	
800 x 600 @72Hz	1024x768 @120Hz	4:03		720 x 576p @50Hz	4:03	
800 x 600 @75Hz				720 x 576p @50Hz	16:09	
832 x 624 @75Hz				1280 x 720p @50Hz	16:09	
1024 x 768 @60Hz				1920 x 1080i @50Hz	16:09	
1024 x 768 @70Hz				1920 x 1080p @24Hz	16:09	
1024 x 768 @75Hz				3840 x 2160p @24Hz	16:09	
1280 x 1024 @75Hz				3840 x 2160p @25Hz	16:09	
1152 x 870 @75Hz				3840 x 2160p @30Hz	16:09	
				4096 x 2160p @24Hz	256:135	
				4096 x 2160p @25Hz	256:135	
				4096 x 2160p @30Hz	256:135	
				4096 x 2160p @50Hz	256:135	
				4096 x 2160p @60Hz	256:135	

ADDITIONAL INFORMATION

Image size and projection distance



WXGA series (IN1106SL)

Projection image size is from 30" to 301".

Desired Distance (m)	Tele			Wide		
	Screen Size		Top	Screen Size		Top
	Diagonal (in)	W x H (cm)	Height (cm)	Diagonal (in)	W x H (cm)	Height (cm)
1.1	30	64 x 40	45	33	71 x 45	50
1.5	40	87 x 55	61	45	97 x 61	68
2	54	116 x 73	82	60	130 x 81	91
3	81	174 x 109	123	90	195 x 122	137
4	108	233 x 145	163	121	260 x 162	182
5	135	291 x 182	204	151	325 x 203	228
6	162	349 x 218	245	181	390 x 244	274
7	189	407 x 254	286	211	455 x 284	319
8	216	465 x 291	327	241	519 x 325	365
9	243	523 x 327	368	271	584 x 365	411
10	270	581 x 363	408	301	649 x 406	456

Note: Zoom ratio is 1.12x

ADDITIONAL INFORMATION

1080P series (IN1108SL)

Projection image size is from 28" to 299".

Desired Distance (m)	Tele			Wide		
	Screen Size		Top	Screen Size		Top
	Diagonal (in)	W x H (cm)	Height (cm)	Diagonal (in)	W x H (cm)	Height (cm)
1	28	62 x 35	40	31	68 x 38	44
1.5	42	93 x 52	60	46	101 x 57	66
2	56	123 x 69	81	61	135 x 76	88
2.5	70	154 x 87	101	76	169 x 95	110
3	84	185 x 104	121	92	203 x 114	132
3.5	98	216 x 122	141	107	236 x 133	154
4	112	247 x 139	161	122	270 x 152	176
4.5	125	278 x 156	181	137	304 x 171	198
5	139	309 x 174	201	153	338 x 190	220
6	167	370 x 208	242	183	405 x 228	265
7	195	432 x 243	282	214	473 x 266	309
8	223	494 x 278	322	244	541 x 304	353
9.8	273	605 x 340	395	299	662 x 372	432

Note: Zoom ratio is 1.1x

1080P series (IN1108ST)

Projection image size is from 36" to 911".

Desired Distance (m)	Tele			Wide		
	Screen Size		Top	Screen Size		Top
	Diagonal (in)	W x H (cm)	Height (cm)	Diagonal (in)	W x H (cm)	Height (cm)
0.4	36	81 x 45	53	36	81 x 45	53
1.5	137	302 x 170	197	137	302 x 170	197
2	182	403 x 227	263	182	403 x 227	263
3	273	605 x 340	395	273	605 x 340	395
4	364	806 x 454	526	364	806 x 454	526
5	455	1008 x 567	658	455	1008 x 567	658
6	546	1210 x 680	789	546	1210 x 680	789
7	637	1411 x 794	921	637	1411 x 794	921
8	729	1613 x 907	1052	729	1613 x 907	1052
9	820	1815 x 1021	1184	820	1815 x 1021	1184
10	911	2016 x 1134	1316	911	2016 x 1134	1316

Note: Zoom ratio is 1.00x

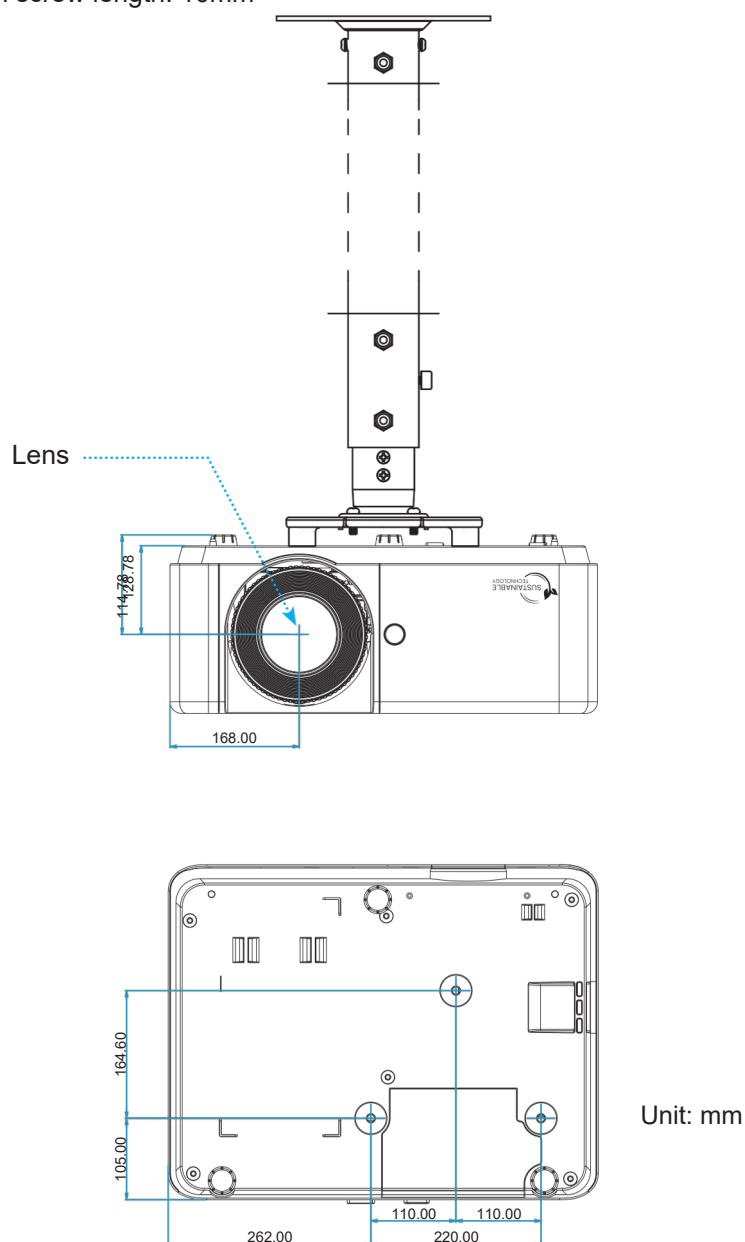
ADDITIONAL INFORMATION

Projector dimensions and ceiling mount installation

To prevent damage to your projector, please use only approved InFocus ceiling mounts:
<https://www.infocus.com/accessories/mounts>

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 pcs
- Minimum screw length: 10mm



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



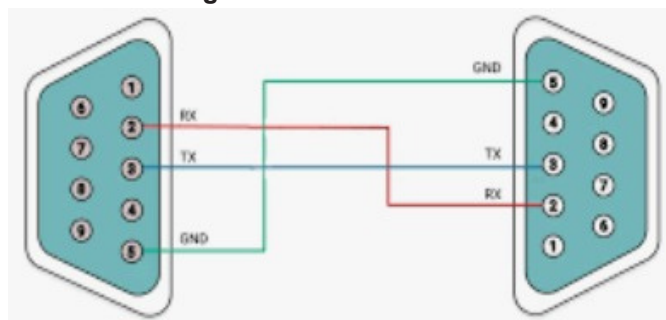
Warning:

- 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.
- Be sure to keep at least 10 cm gap between the ceiling and the bottom of the projector.
- Avoid installing the projector near a heat source.

ADDITIONAL INFORMATION

RS232 Commands and Protocol Function List

RS232 Pin Assignments



Pin	Signal	Signal Function
1	DCD	Data Carrier Detect
2	RxD	Receive Data
3	TxD	Transmit Data
4	DTR	Data Terminal Ready
5	GND	Ground (Signal)
6	DSR	Data Set Ready
7	RTS	Request to Send
8	CTS	Clear to Send
9	RI	Ring Indicator

Index	Command Set		Function	Value/Range
	ASCII Code	HEX Code		
S001	~XX00 1	7E 30 30 30 30 20 31 0D	Power	On
	~XX00 0	7E 30 30 30 30 20 30 0D		Off (0/2 for backward compatible)
S002	~XX00 1 ~nnnn	7E 30 30 30 30 20 31 20 a 0D	Power ON with Password ~nnnn	"nnnn = Password ~0000 (a=7E 30 30 30 30) ~9999 (a=7E 39 39 39 39)"
S003	~XX01 1	7E 30 30 30 31 20 31 0D	Resync	
S004	~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)
S005	~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)
S006	~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)
S007	~XX05 1	7E 30 30 30 35 20 31 0D	Zoom Plus	
S008	~XX06 1	7E 30 30 30 36 20 31 0D	Zoom Minus	
	~XX12 1	7E 30 30 31 32 20 31 0D		HDMI (HDMI 1)
	~XX12 15	7E 30 30 31 32 20 31 35 0D		HDMI 2
S011	~XX20 1	7E 30 30 32 30 20 31 0D	Picture Mode	Presentation
	~XX20 2	7E 30 30 32 30 20 32 0D		Bright
	~XX20 3	7E 30 30 32 30 20 33 0D		Movie (Cinema)
	~XX20 5	7E 30 30 32 30 20 35 0D		User
	~XX20 9	7E 30 30 32 30 20 39 0D		3D
	~XX20 12	7E 30 30 32 30 20 31 32 0D		Game(Football)
	~XX20 22	7E 30 30 32 30 20 32 32 0D		HDR SIM.
S012	~XX21 n	7E 30 30 32 31 20 a 0D	Brightness	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S013	~XX22 n	7E 30 30 32 32 20 a 0D	Contrast	n = -50 (a=2D 35 30) ~ 50 (a=35 30)

ADDITIONAL INFORMATION

Index	Command Set		Function	Value/Range
	ASCII Code	HEX Code		
S014	~XX23 n	7E 30 30 32 33 20 a 0D	Sharpness	n = 1 (a=31) ~ 15 (a=31 35)
S021	~XX34 n	7E 30 30 33 34 20 a 0D	BrilliantColorTM	n = 1 (a=30) ~ 10 (a=31 30)
S022	~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 (2.2)
S023	~XX36 1	7E 30 30 33 36 20 31 0D	Colour Temp.	Warm
	~XX36 2	7E 30 30 33 36 20 32 0D		Medium(Standard)
	~XX36 3	7E 30 30 33 36 20 33 0D		Cold
S024	~XX37 1	7E 30 30 33 37 20 31 0D	Colour 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)
S025	~XX44 n	7E 30 30 34 34 20 a 0D	Tint	n = -50 (a=2D 35 30) ~ 50 (a=35 30))
S026	~XX45 n	7E 30 30 34 35 20 a 0D	Colour (Saturation)	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S027	~XX46 1	7E 30 30 34 36 20 31 0D	Brightness	Brightness -
	~XX46 2	7E 30 30 34 36 20 32 0D		Brightness +
S028	~XX47 1	7E 30 30 34 37 20 31 0D	Contrast	Contrast -
	~XX47 2	7E 30 30 34 37 20 32 0D		Contrast +
S029	~XX59 1	7E 30 30 35 39 20 31 0D	Four corners	top-left (right+)
	~XX59 2	7E 30 30 35 39 20 32 0D		top-left (left+)
	~XX59 3	7E 30 30 35 39 20 33 0D		top-left (up +)
	~XX59 4	7E 30 30 35 39 20 34 0D		top-left (down +)
	~XX59 5	7E 30 30 35 39 20 35 0D		top right (right +)
	~XX59 6	7E 30 30 35 39 20 36 0D		top right (left +)
	~XX59 7	7E 30 30 35 39 20 37 0D		top right (up +)
	~XX59 8	7E 30 30 35 39 20 38 0D		top right (down +)
	~XX59 9	7E 30 30 35 39 20 39 0D		Bottom-left (right+)
	~XX59 10	7E 30 30 35 39 20 31 30 0D		Bottom-left(left+)
	~XX59 11	7E 30 30 35 39 20 31 31 0D		Bottom-left(Up+)
	~XX59 12	7E 30 30 35 39 20 31 32 0D		Bottom-left(down+)
	~XX59 13	7E 30 30 35 39 20 31 33 0D		Bottom-right (right+)
	~XX59 14	7E 30 30 35 39 20 31 34 0D		Bottom-right(left+)
	~XX59 15	7E 30 30 35 39 20 31 35 0D		Bottom-right(Up+)
	~XX59 16	7E 30 30 35 39 20 31 36 0D		Bottom-right(down+)
S030	~XX60 1	7E 30 30 36 30 20 31 0D	Format (Aspect Ratio)	4:3
	~XX60 2	7E 30 30 36 30 20 32 0D		16:9
	~XX60 5	7E 30 30 36 30 20 35 0D		LBX
	~XX60 7	7E 30 30 36 30 20 37 0D		Auto
	~XX60 19	7E 30 30 36 30 20 31 39 0D		FULL
S032	~XX62 n	7E 30 30 36 32 20 a 0D	Zoom	n = -5 (a=2D 35) ~ 25 (a=32 35)
S033	~XX63 n	7E 30 30 36 33 20 a 0D	H Image Shift	n = -100 (a=2D 31 30 30) ~ 100 (a= 31 30 30)
S034	~XX64 n	7E 30 30 36 34 20 a 0D	V Image Shift	n = -100 (a=2D 31 30 30) ~ 100 (a= 31 30 30)
S035	~XX65 n	7E 30 30 36 35 20 a 0D	H Keystone	n = -30 (a=2D 33 30) ~ 30 (a=33 30)

ADDITIONAL INFORMATION

Index	Command Set		Function	Value/Range
	ASCII Code	HEX Code		
S036	~XX66 n	7E 30 30 36 36 20 a 0D	V Keystone	"RT: n = -40 (a=2D 34 30) ~ 40 (a=34 30) ST: n = -20 (a=2D 32 30) ~ 20 (a=32 30) n = -30 (a=2D 33 30) ~ 30 (a=33 30) (for INL2156,58,59)"
S037	~XX69 1	7E 30 30 36 39 20 31 0D	Auto Keystone	On
	~XX69 0	7E 30 30 36 39 20 30 0D		Off (0/2 for backward compatible)
S038	~XX70 1	7E 30 30 37 30 20 31 0D	Language	English
	~XX70 2	7E 30 30 37 30 20 32 0D		Deutsch
	~XX70 3	7E 30 30 37 30 20 33 0D		Français
	~XX70 4	7E 30 30 37 30 20 34 0D		Italiana
	~XX70 5	7E 30 30 37 30 20 35 0D		Español
	~XX70 6	7E 30 30 37 30 20 36 0D		Português
	~XX70 7	7E 30 30 37 30 20 37 0D		Polski
	~XX70 8	7E 30 30 37 30 20 38 0D		Nederlands
	~XX70 9	7E 30 30 37 30 20 39 0D		Svenska
	~XX70 10	7E 30 30 37 30 20 31 30 0D		Norsk/Dansk
	~XX70 11	7E 30 30 37 30 20 31 31 0D		Suomi
	~XX70 13	7E 30 30 37 30 20 31 33 0D		繁體中文
	~XX70 14	7E 30 30 37 30 20 31 34 0D		简体中文
	~XX70 15	7E 30 30 37 30 20 31 35 0D		日本語
	~XX70 16	7E 30 30 37 30 20 31 36 0D		한국어
	~XX70 17	7E 30 30 37 30 20 31 37 0D		Русский
	~XX70 18	7E 30 30 37 30 20 31 38 0D		Magyar
	~XX70 19	7E 30 30 37 30 20 31 39 0D		Čeština
	~XX70 20	7E 30 30 37 30 20 32 30 0D		برع
	~XX70 21	7E 30 30 37 30 20 32 31 0D		ไทย
	~XX70 22	7E 30 30 37 30 20 32 32 0D		Türkçe
	~XX70 25	7E 30 30 37 30 20 32 35 0D		Tiếng Việt
	~XX70 26	7E 30 30 37 30 20 32 36 0D		Bahasa Indonesia
	~XX70 34	7E 30 30 37 30 20 33 34 0D		
S045	~XX77 n	7E 30 30 37 37 20 aabbcc 0D	Security Security Timer Month/Day/Hour	"n = mm/dd/hh mm= 00 (aa=30 30) ~ 12 (aa=31 32) dd = 00 (bb=30 30) ~ 30 (bb=33 30) hh= 00 (cc=30 30) ~ 24 (cc=32 34)"
S046	~XX78 1 ~nnnn	7E 30 30 37 38 20 31 20 a 0D	Security	"On with password ~nnnn = ~0000 (a= 7E 30 30 30 30) ~9999 (a=7E 39 39 39 39)"
	~XX78 0 ~nnnn	7E 30 30 37 38 20 30 20 a 0D		"Off (0/2 for backward compatible) with password ~nnnn = ~0000 (a= 7E 30 30 30 30) ~9999 (a=7E 39 39 39 39)"
S048	~XX80 1	7E 30 30 38 30 20 31 0D	Mute	On
	~XX80 0	7E 30 30 38 30 20 30 0D		Off (0/2 for backward compatible)
S049	~XX81 n	7E 30 30 38 31 20 a 0D	Volume (Audio)	n = 0 (a=30) ~ 10 (a=31 30)
S050	~XX82 1	7E 30 30 38 32 20 31 0D	Logo	Default
	~XX82 3	7E 30 30 38 32 20 33 0D		Neutral
S051	~XX84 0	7E 30 30 38 34 20 30 0D	Projection Location	Auto
	~XX84 1	7E 30 30 38 34 20 31 0D		Desktop
	~XX84 2	7E 30 30 38 34 20 32 0D		Ceiling

ADDITIONAL INFORMATION

Index	Command Set		Function	Value/Range
	ASCII Code	HEX Code		
S059	~XX101 1	7E 30 30 31 30 31 20 31 0D	High Altitude	On Off (0/2 for backward compatible)
	~XX101 0	7E 30 30 31 30 31 20 30 0D		
	~XX105 1	7E 30 30 31 30 35 20 31 0D	Direct Power On	On
	~XX105 0	7E 30 30 31 30 35 20 30 0D		Off (0/2 for backward compatible)
S060	~XX106 n	7E 30 30 31 30 36 20 a 0D	"Auto Power Off (min) " (5 minutes for each step)."	n = 0 (a=30) ~ 180 (a=31 38 30)
S065	~XX112 1	7E 30 30 31 31 32 20 31 0D	Reset to Default Yes (P.S When security is off)	"Yes with no password (Security is Off)"
S066	~XX112 1 ~nnnn	7E 30 30 31 31 32 20 31 0D	Reset to Default Yes (P.S When security is On/ Off	"Yes with no password (Security is Off)"
S067	~XX113 1	7E 30 30 31 31 33 20 31 0D	Signal Power On	On
S070	~XX113 0	7E 30 30 31 31 33 20 30 0D		Off (0/2 for backward compatible)
	~XX140 10	7E 30 30 31 34 30 20 31 30 0D	IR Function	Up
	~XX140 11	7E 30 30 31 34 30 20 31 31 0D		Left
	~XX140 12	7E 30 30 31 34 30 20 31 32 0D		Enter (for Projection MENU)
	~XX140 13	7E 30 30 31 34 30 20 31 33 0D		Right
	~XX140 14	7E 30 30 31 34 30 20 31 34 0D		Down
	~XX140 15	7E 30 30 31 34 30 20 31 35 0D		Keystone +
	~XX140 16	7E 30 30 31 34 30 20 31 36 0D		Keystone –
	~XX140 17	7E 30 30 31 34 30 20 31 37 0D		Volume –
	~XX140 18	7E 30 30 31 34 30 20 31 38 0D		Volume +
	~XX140 19	7E 30 30 31 34 30 20 31 39 0D		Brightness
	~XX140 20	7E 30 30 31 34 30 20 32 30 0D		Menu
	~XX140 21	7E 30 30 31 34 30 20 32 31 0D		Zoom
	~XX140 28	7E 30 30 31 34 30 20 32 38 0D		Contrast
	~XX140 47	7E 30 30 31 34 30 20 34 37 0D		Source
S071	~XX195 0	7E 30 30 31 39 35 20 30 0D	Test Pattern	Off
	~XX195 2	7E 30 30 31 39 35 20 32 0D		White
	~XX195 3	7E 30 30 31 39 35 20 33 0D		Grid (Green)
	~XX195 9	7E 30 30 31 39 35 20 39 0D		Test Card
S077	~XX230 0	7E 30 30 32 33 30 20 30 0D	3D Mode	Off
	~XX230 1	7E 30 30 32 33 30 20 31 0D		DLP-Link
S078	~XX231 0	7E 30 30 32 33 31 20 30 0D	3D Sync Invert	Off
	~XX231 1	7E 30 30 32 33 31 20 31 0D		On
S079	~XX313 1	7E 30 30 33 31 33 20 31 0D	Information Menu	On
	~XX313 0	7E 30 30 33 31 33 20 30 0D		Off (0/2 for backward compatible)
S083	~XX327 n	7E 30 30 33 32 37 20 a 0D	Colour Setting Red Hue	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S084	~XX328 n	7E 30 30 33 32 38 20 a 0D	Colour Setting Green Hue	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S085	~XX329 n	7E 30 30 33 32 39 20 a 0D	Colour Setting Blue Hue	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S086	~XX330 n	7E 30 30 33 33 30 20 a 0D	Colour Setting Cyan Hue	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S087	~XX331 n	7E 30 30 33 33 31 20 a 0D	Colour Setting Yellow Hue	n = -50 (a=2D 35 30) ~ 50 (a=35 30)

ADDITIONAL INFORMATION

Index	Command Set		Function	Value/Range
	ASCII Code	HEX Code		
S088	~XX332 n	7E 30 30 33 33 32 20 a 0D	Colour Setting Magenta Hue	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S089	~XX333 n	7E 30 30 33 33 33 20 a 0D	Colour Setting Red Saturation	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S090	~XX334 n	7E 30 30 33 33 34 20 a 0D	Colour Setting Green Saturation	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S091	~XX335 n	7E 30 30 33 33 35 20 a 0D	Colour Setting Blue Saturation	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S092	~XX336 n	7E 30 30 33 33 36 20 a 0D	Colour Setting Cyan Saturation	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S093	~XX337 n	7E 30 30 33 33 37 20 a 0D	Colour Setting Yellow Saturation	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S094	~XX338 n	7E 30 30 33 33 38 20 a 0D	Colour Setting Magenta Saturation	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S095	~XX339 n	7E 30 30 33 33 39 20 a 0D	Colour Setting Red Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S096	~XX340 n	7E 30 30 33 34 30 20 a 0D	Colour Setting Green Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S097	~XX341 n	7E 30 30 33 34 31 20 a 0D	Colour Setting Blue Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S098	~XX342 n	7E 30 30 33 34 32 20 a 0D	Colour Setting Cyan Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S099	~XX343 n	7E 30 30 33 34 33 20 a 0D	Colour Setting Yellow Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S100	~XX344 n	7E 30 30 33 34 34 20 a 0D	Colour Setting Magenta Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S101	~XX345 n	7E 30 30 33 34 35 20 a 0D	Colour Setting White Red	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S102	~XX346 n	7E 30 30 33 34 36 20 a 0D	Colour Setting White Green	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S103	~XX347 n	7E 30 30 33 34 37 20 a 0D	Colour Setting White Blue	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
S106	~XX405 0	7E 30 30 34 30 35 20 30 0D	3D Format	Auto
	~XX405 1	7E 30 30 34 30 35 20 31 0D		SBS
	~XX405 2	7E 30 30 34 30 35 20 32 0D		Top and Bottom
	~XX405 3	7E 30 30 34 30 35 20 33 0D		Frame Sequential
S108	~XX511 0	7E 30 30 35 31 31 20 30 0D	HDMI Link(CEC)	Off (0/2 for backward compatible)
	~XX511 1	7E 30 30 35 31 31 20 31 0D		On
S109	~XX563 0	7E 30 30 35 36 33 20 30 0D	Auto Source	Off (0/2 for backward compatible)
	~XX563 1	7E 30 30 35 36 33 20 31 0D		On

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.
- Ensure the "Mute" or "AV Mute" features are not turned on.



Image is out of focus

- Turn the focus ring clockwise or counterclockwise until the image is sharp and legible. (Please see page 20).
- Make sure the projection screen is between the required distances from the projector. (Please refer to "Image size and projection distance" section).



The image is stretched when displaying 16:9 DVD title

- When playing anamorphic sources or 16:9 sources the projector will display the best image in 16:9 format.
- When playing a Letterbox (LBX) formatted source change the Aspect Ratio to L. Box.
- If you play 4:3 format DVD title, please change the format as 4:3 in projector OSD.
- Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.



Image is too small or too large

- Turn the zoom ring clockwise or counterclockwise to increase or decrease the projected image size. (Please see page 20).
- Move the projector closer to or further from the screen.
- Press "Menu" on the projector panel, go to "Display → Aspect Ratio". 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.
- Adjust the vertical or horizontal keystone until the image appears rectangular.



Image is reversed

- Select "Setup → Projection" from the OSD and adjust the projection mode.

ADDITIONAL INFORMATION

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.

Remote control problems



If the remote control does not work

- Check the operating angle of the remote control is within $\pm 30^\circ$ to the IR receiver on the projector.
- Make sure there are not any obstructions between the remote control and the projector. Move to within 6 m (19 ft) of the projector.
- Make sure there are no fluorescent light sources shining on the IR receivers.
- Make sure batteries are inserted correctly.
- Replace batteries if they are exhausted.

ADDITIONAL INFORMATION

Warning indicators

When the warning indicators (see below) light up or flash, the projector will automatically shutdown:

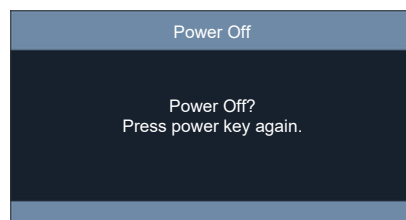
- “Lamp” LED indicator is lit red and if “Power” indicator flashes red. “Temp” LED indicator is lit red and if “Power” indicator flashes red. This indicates the projector has overheated. Under normal conditions, the project can be switched back on.
- “Temp” LED indicator flashes red and if “Power” indicator flashes red.

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

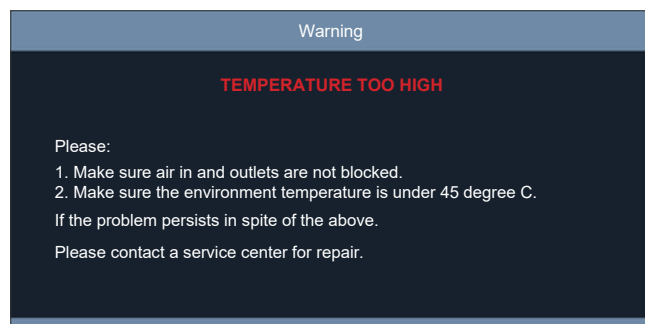
LED lightning messages

Message	Power LED		Temp LED	Laser LED
	(Red)	(Green or Blue)	(Red)	(Red)
Standby state	Steady light			
Warming up state		Flashing		
Power on & Lamp On	Steady Light			
Cooling down		Flashing		
Error states:				
Lamp fail	Flashing			Steady light
Fan fail	Flashing		Flashing	
Overheat	Flashing		Steady light	

Power off:



Temperature warning:



ADDITIONAL INFORMATION

Specifications

Note: Product label I(Rating label) is located on the bottom of the projector.

Optical	Description
Maximum resolution	- HDMI (HDMI1.4) supports 1920 X 1200 @60Hz resolution (RB) - HDMI (2.0) supports 3840 x 2160 @60Hz resolution
Native resolution	- WXGA model supports 1280 x 800 resolution @60Hz 1080P model supports 1920 x 1080 resolution @60Hz
Lens	- WXGA model supports manual focus and zoom 1080P model supports manual focus
Image size (diagonal)	- WXGA model optimized at 60" wide @2m 1080p models optimized at 60" wide @2m (IN1108SL model) or 89" wide @1m (IN1108ST model)
Projection distance	- WXGA model supports 1.3m to 10m (Optical Performance Range) or 1m to 10m (Mechanism Travel) 1080P (IN1108SL) model supports 1m to 5m (Optical Performance Range) and 1m to 9.8m (Mechanism Travel) 1080P (IN1108ST) model supports 0.779m to 1.127m (Optical Performance Range) and 0.4m to 10m (Mechanism Travel)

Electrical	Description
Inputs	- HDMI 1.4b (HDCP 1.4) (WXGA model only) - HDMI 1.4b (HDCP 1.4), HDMI 2.0 (HDCP 2.2) (1080P model only) - USB Type-A for power USB 5V/1.5A and firmware upgrade - RS232 - DC In
Outputs	Audio Out 3.5mm
Control	RS232
Scan rate	- Horizontal scan rate is 15KHz to 102kHz (WXGA model only) or 135kHz (1080P model only) - Vertical scan rate is 24Hz to 120Hz
Built-in speaker	15W
Power requirement	230W, DC 19.5V
Input current	9.23A

Mechanical	Description
Installation orientation	360 degrees front to back - Portrait capable
Dimensions	278mm (W) x 216mm (D) x 108mm (H) (without feet) 278mm (W) x 216mm (D) x 115mm (H) (with feet)
Weight	3.1 ±0.5kg (net) 4.6 ±0.5kg (gross)
Environmental conditions	Operating in 0 ~ 40°C, up to 80% humidity (non-condensing)

Note: All specifications are subject to change without notice.

FOR USERS IN THE UNITED STATES AND CANADA



INFORMATION

US Importer and Local Representative in accordance with FCC regulations

Maxnerva Technology Services USA LLC
13190 SW 68th Parkway, Suite 120
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FOR USERS IN EUROPEAN UNION



INFORMATION

EU Importer

Grand Field Technology Limited
Room 1001, 10/F, Houston Centre, 63 Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong.

EU Authorised Representative

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FOR USERS IN THE UNITED KINGDOM AND NORTHERN IRELAND



INFORMATION

Manufacturer

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FOR USERS IN RUSSIA



INFORMATION

Russian Authorised Representative

Maxnerva has appointed AUVIX LLC, 129085, c. Moscow, Zvezdny Boulevard, 21, bldg. 1. as the authorized representative in Russia and this product is compliant with TR TC 004/2011, TR TC 020/2011 and TR CU 020/2011 local conformity testing and approvals.

Maxnerva назначил ООО « АУВИКС », 129085, г. Москва, Звездный бульвар, д. 21, стр. 1., в качестве официального представителя в России, и этот продукт соответствует требованиям TR TC 004/2011, TR TC 020/2011 и TR CU 020 /2011г. местные испытания на соответствие и согласования.

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