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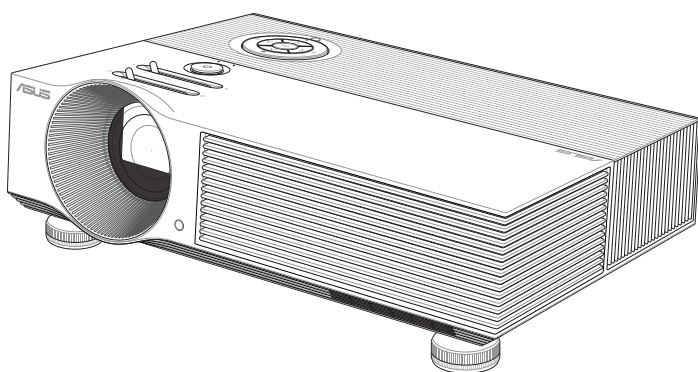
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LED projector

E-Manual

H1 Series



E17411

First Edition

March 2021

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About this manual

This manual provides information about the hardware and software features of your LED projector through the following chapters:

Chapter 1: Knowing your LED Projector

This chapter details the parts of your LED projector and its accompanying remote control.

Chapter 2: Setting up

This chapter shows you how to set up your LED projector and use its parts for input device connection.

Chapter 3: Using the onscreen display menu

This chapter talks about the features of your LED projector's onscreen display menu and how to navigate it using the control panel.

Appendices

This section includes safety notices for your LED projector.

Conventions used in this manual

To highlight key information in this manual, some text are presented as follows:

IMPORTANT! This message contains vital information that must be followed to complete a task.

NOTE: This message contains additional information and tips that can help complete tasks.

WARNING! This message contains important information that must be followed to keep you safe while performing tasks and prevent damage to your LED projector's data and components.

Typography

Bold = This indicates a menu or an item that must be selected.

Italic = This indicates sections that you can refer to in this manual.

Multi-language versions

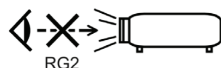
Download other language versions of this E-Manual via this website:

<https://www.asus.com/support>

Safety precautions

Using your LED projector

- Refer to the manual and take note of the safety instructions before operating your LED projector.
- Follow the notes and warnings stated in the user manual.
- Do not place your LED projector on uneven or unstable surfaces.
- Do not use your LED projector in smoky environments. Smoke residue may cause build-up on critical parts and damage the LED projector or decrease its performance.
- Keep the LED projector's plastic packages out of the reach of children.
- Do not block or place anything near the LED projector's ventilation holes. Doing so may cause internal heat build-up that can degrade picture quality and damage the projector.
- Ensure that the operating voltage of your LED projector matches the voltage of your power source.
- Possibly hazardous optical radiation is emitted from this product. As with any bright light source, do not stare into the beam. (RG2 IEC 62471-5:2015)



Servicing and replacement of parts

- Do not disassemble or attempt to service this LED projector by yourself. Contact your local ASUS service center for assistance.
- When replacing parts of your LED projector, purchase items as specified by ASUS and contact your local service center for assistance.

Caring for your LED projector

- Switch off then unplug the LED projector from the power outlet before cleaning it.
- When cleaning the LED projector's housing, use a clean soft cloth dampened with water or a mix of water and neutral detergent. Wipe it dry using a soft dry cloth.
- Ensure that the lens is cool before cleaning it. Gently wipe the lens using a lens cleaning paper. Do not touch the lens with your hands.
- Do not use liquid or aerosol cleaners, benzene, or thinners on your LED projector.
- Never operate this LED projector immediately after moving it from a cold location. When the LED projector is exposed to a drastic change in temperature, moisture may condense on the lens and its other internal parts. To prevent this, use the unit two (2) hours after an extreme or sudden change in temperature occurs.

Proper disposal



Do not throw your LED projector in municipal waste. This product has been designed to enable proper reuse of parts and recycling. The symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment and mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

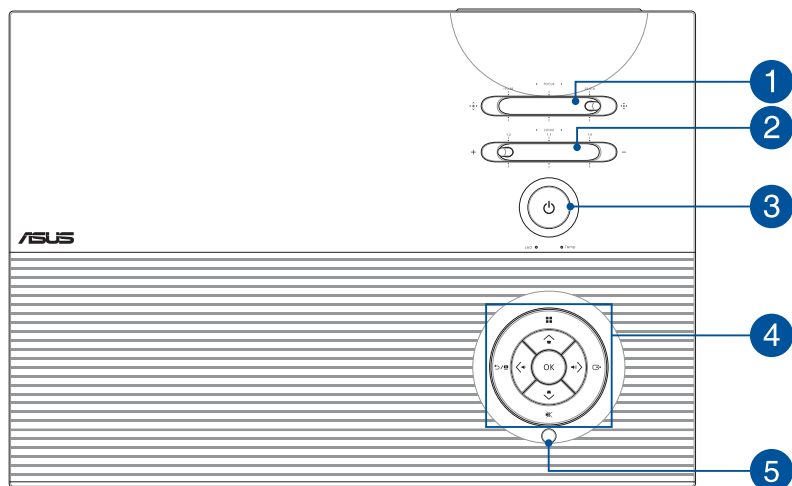


Do not throw the battery in municipal waste. The symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

Chapter 1:
***Knowing your LED
projector***

Features

Top View



1 Focus lever

This lever allows you to adjust the image focus.

2 Zoom lever

This lever allows you to adjust the image size.

3 Power button

Press the power button to turn your LED projector on or off.

NOTE: In the event that your LED projector becomes unresponsive, unplug the power cord and wait until your LED projector shuts down.

4 Control panel buttons

These buttons correspond to a specific LED projector setting as indicated below.

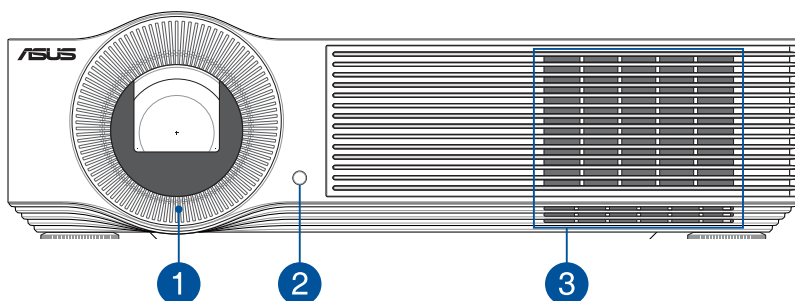
		
Open main menu	Back	Mute
	OK	
Input	OK/Enter	Select (up, down, left or right) Adjust keystone (up or down) Adjust volume (left or right)

NOTE: For more information on using your LED projector's settings, refer to the *Using the onscreen display menu* section in this manual.

5 Remote sensor

The remote sensor detects signal from your LED projector's remote control, allowing you to access the LED projector's control panel from a distance of up to 8 meters and a receiving angle of ± 30 degrees.

Front View



1 Lens

The lens projects video or image files onscreen from your input device.

WARNING! Do not touch the lens using your hands or any sharp object.

2 Remote sensor

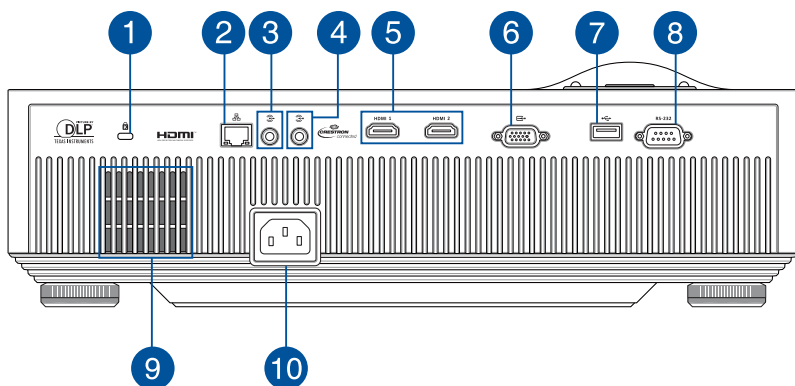
The remote sensor detects signal from your LED projector's remote control, allowing you to access the LED projector's control panel from a distance of up to 8 meters and a receiving angle of ± 30 degrees.

3 Air vents

The air vents allow cool air to enter your LED projector.

WARNING! Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

Rear View



1 Kensington® security slot

The Kensington® security slot allows you to secure your LED projector using Kensington® compatible LED projector security products.

2 LAN port (Ethernet RJ-45 port)

This port allows you to connect your LED projector to an IP network.

3 Line out jack

This jack allows your LED projector to provide an audio signal output.

4 Line in jack

This jack allows your LED projector to receive an audio signal input.

5 HDMI ports

These ports are for the HDMI (High-Definition Multimedia Interface) connectors. These port are HDCP compliant for HD DVD, Blu-ray, and other protected content playback.

6 VGA port

This port allows you to connect your LED projector to other VGA-compatible devices.

7 Power output port

This power output port provides up to 5V/1.5A of output voltage and current. You can connect your mobile device to this port to keep it charged.

8 RS-232C port

This port allows you to connect your LED projector to an RS-232C compatible control terminal with an RS-232C cross cable.

9 Air vents

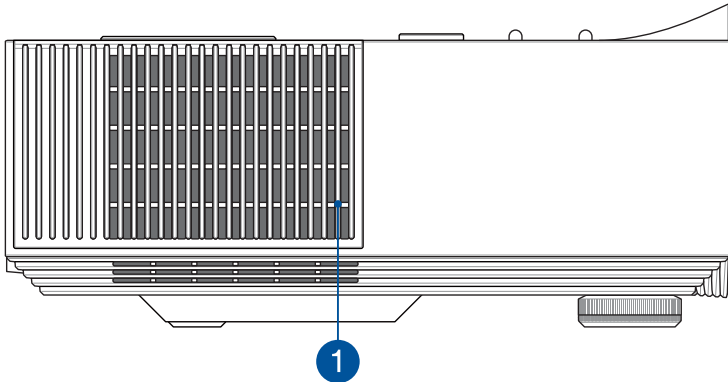
The air vents allow cool air to enter and warm air to exit your LED projector.

WARNING! Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

10 Power inlet

Connect the power cord to your LED projector.

Left View

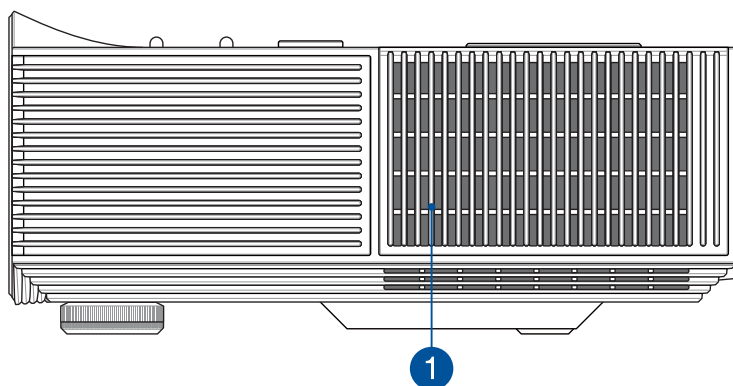


1 Air vents

The air vents allow cool air to enter your LED projector.

WARNING! Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

Right View

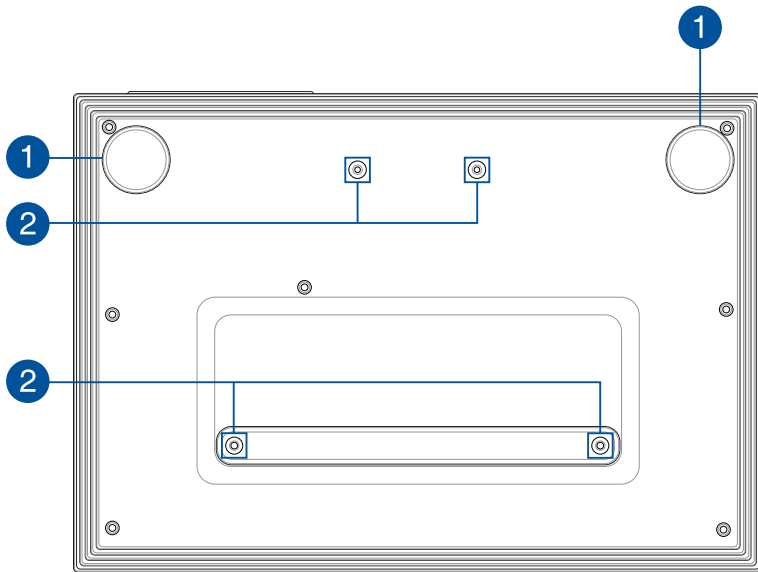


1 Air vents

The air vents allow warm air to exit your LED projector.

WARNING! Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

Bottom View



1 Adjustable foot

Rotate this adjustable foot to level the LED projector or adjust the height of the LED projector.

2 Ceiling mount holes

Use these holes to connect the LED projector to a ceiling mount.

NOTE: For more details, refer to the *Ceiling mount hole details* section in this manual.

Positioning your LED projector

Choosing a location

Aside from using the LED projector as a tabletop device, you can also mount it on the ceiling using the ceiling mount holes on its bottom side.

IMPORTANT! Ask a specialist or your retailer for assistance when mounting your LED projector to the ceiling. A qualified professional should do the installation process.

NOTE:

- You may also refer to the Screen size and projection distance table section in this manual to specify the right distance for mounting your LED projector on the ceiling.
 - Keep a reasonable space between the bracket and the projector to allow for proper heat distribution.
 - In addition to the ceiling mount kit and screws, we also recommend using a metal bar or wire to hold the ceiling-mounted LED projector for added protection and to prevent it from falling due to natural causes such as earthquakes.
-

Projecting files from a mounted position

After mounting your LED projector, you need to change its image position settings to ensure that files are automatically flipped and projected correctly onscreen.

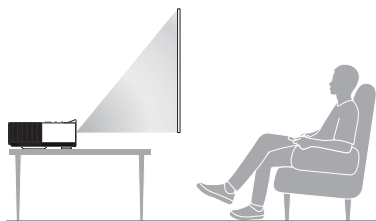
To change your image position settings:

1. Navigate to **Display > Projector Position** on your LED projector.
2. Select **Front Ceiling**, **Rear Ceiling**, **Front Table** or **Rear Table** to change the settings of your LED projector.

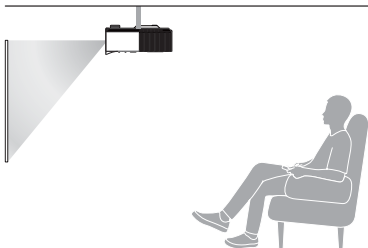
Front table



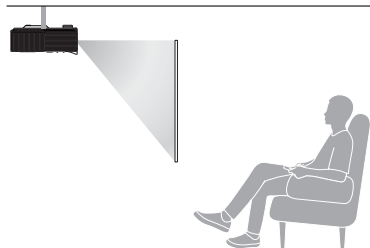
Rear table



Front ceiling

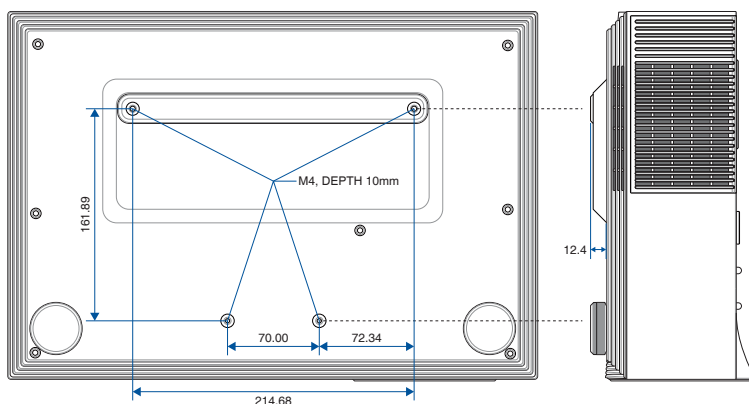


Rear ceiling



Ceiling mount hole details

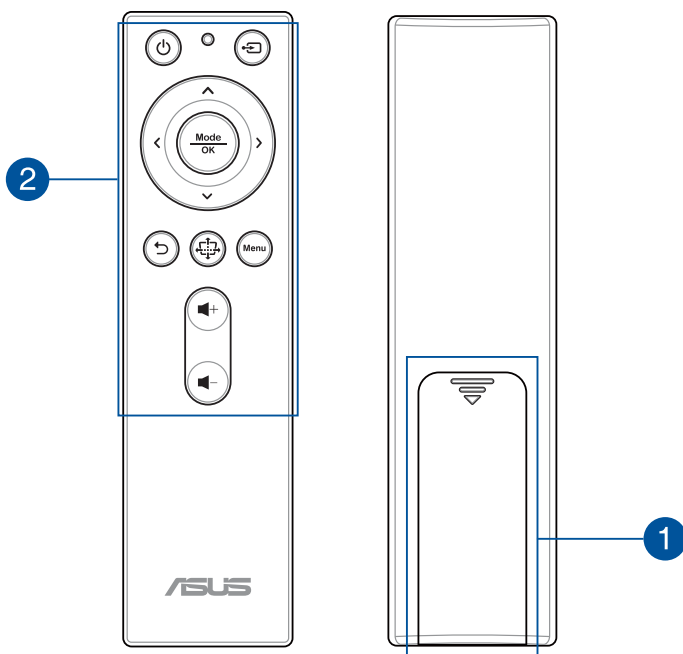
IMPORTANT! Ensure that the washers included in the ceiling mount kit are placed between the ceiling mount and screw to protect your LED projector and stabilize its position.



Mount hole location	Screw size	Pieces of screw
Front ceiling mount	M4 X 2.4mm (Min. L)	2
Rear ceiling mount	M4 X 1.2mm (Min. L)	2

LED projector remote control

NOTE: Actual appearance may vary depending on model.



1 Battery compartment

The battery compartment allows you to use AAA batteries to power your LED projector's remote control.

NOTE: For more details on using the battery compartment, refer to the *Replacing the battery* section in this manual.

2 Remote control buttons

These additional buttons allow you to use the LED projector from a distance of up to 8 meters.



Power - Press this button to turn your LED projector on or off.



Input - Press this button to change the input source.



Back - Press this button to go back to the previous screen.



Keystone - Press this button to adjust the keystone of your projection onscreen.

Menu

Menu - Press this button to launch the menu



Volume down - Press this button to decrease the volume.



Volume up - Press this button to increase the volume.



Focus up/Up - Press this button to increase the focus or move up.



Focus down/Down - Press this button to decrease the focus or move down.



Left - Press this button to move left.



Right - Press this button to move right.

Mode
OK

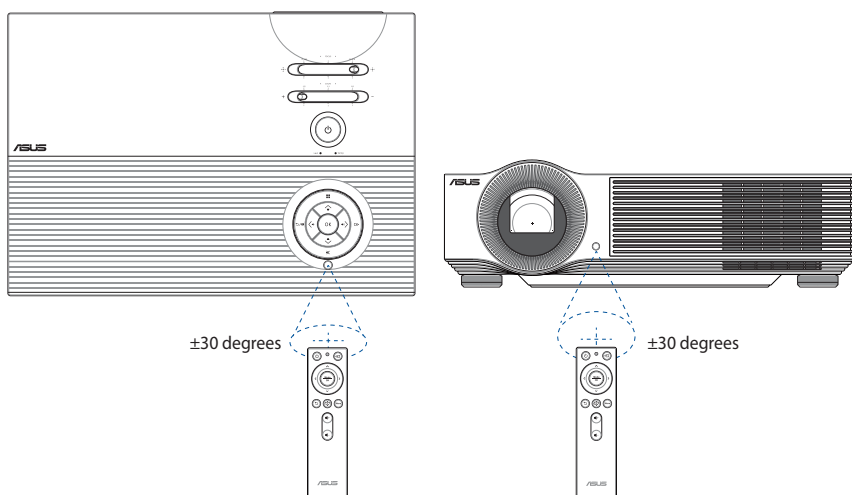
Mode/OK - Press this button to enter the Splendid menu (display modes) or confirm a menu selection.

NOTE: For more details on the onscreen display menu, refer to the *Using the onscreen display menu* section in this manual.

Remote control effective range

Remote sensors are located on the top and front of your LED projector. The remote control must be held at an angle of ± 30 degrees perpendicular to the projector's remote control to function correctly. The distance between the remote control and the sensor should not exceed 8 meters (about 26 feet).

NOTE: Ensure that there are no obstacles between the remote control and the remote sensor on your LED projector.



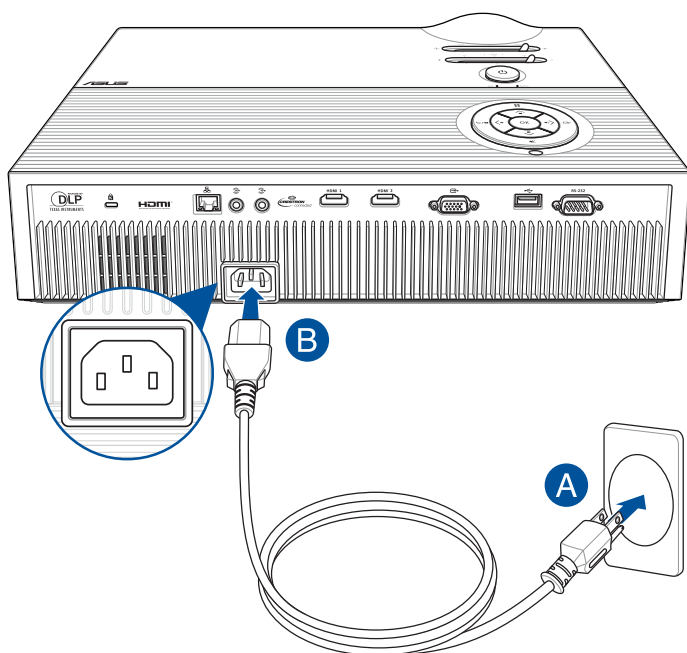
Chapter 2:

Setting up

Operating your LED projector

For your safety and to maintain the quality of this unit, refer to the following steps when operating your LED projector.

- A. Connect the AC power cord to a power source.
- B. Connect the DC power connector to your LED projector.

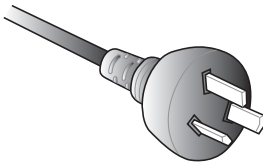


AC power cord requirements

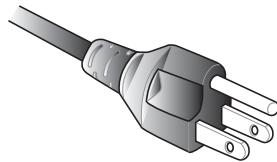
Use the correct AC plug type according to your current location.

IMPORTANT! Contact your sales dealer if the AC power cord bundled with your LED projector does not match your local power source.

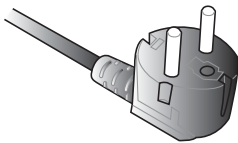
NOTE: We highly recommend that you use a video source device that also uses a grounding type plug to prevent signal interference due to voltage fluctuations.



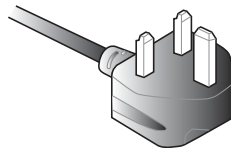
For Australia and Mainland China



For U.S.A., Canada, and Taiwan



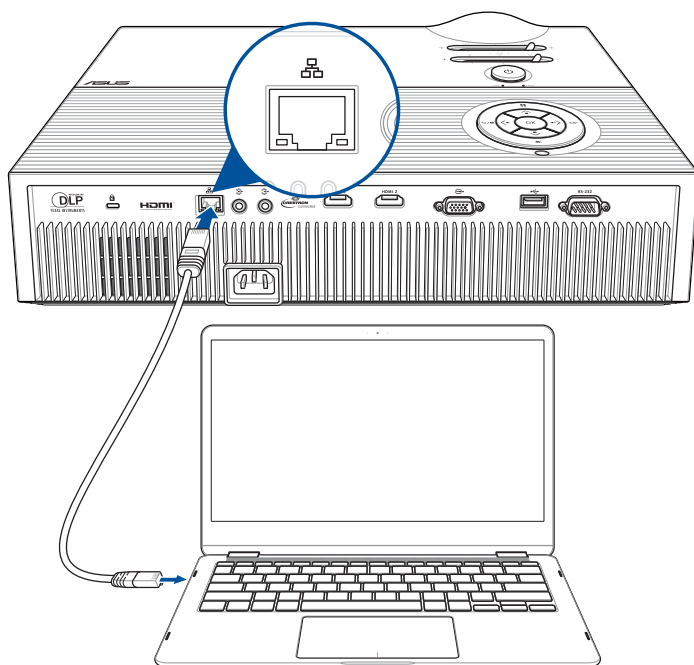
For Continental Europe



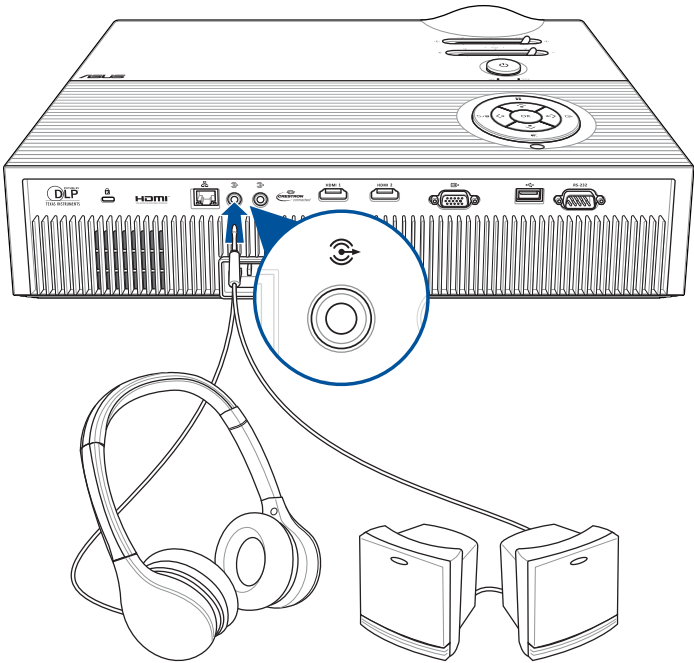
For U.K.

Connect the LED projector to your device

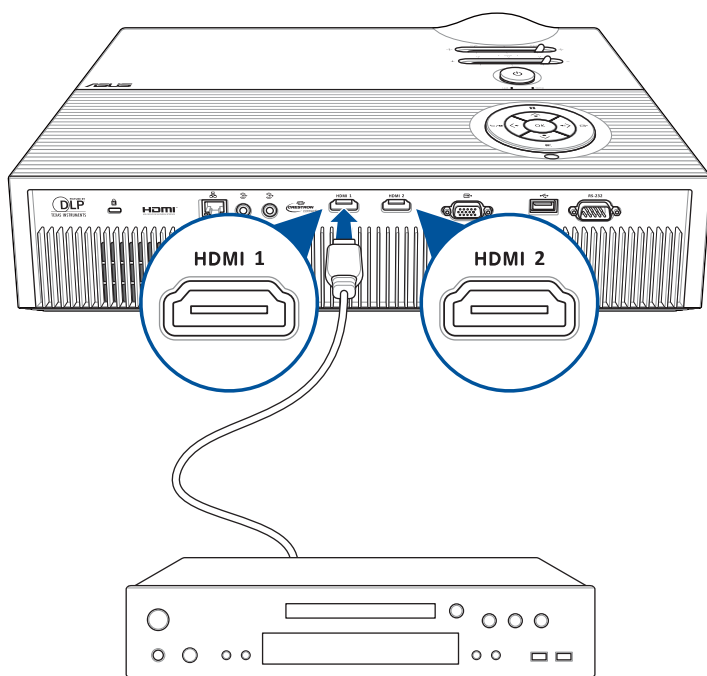
A. LAN port (Ethernet RJ-45 port)



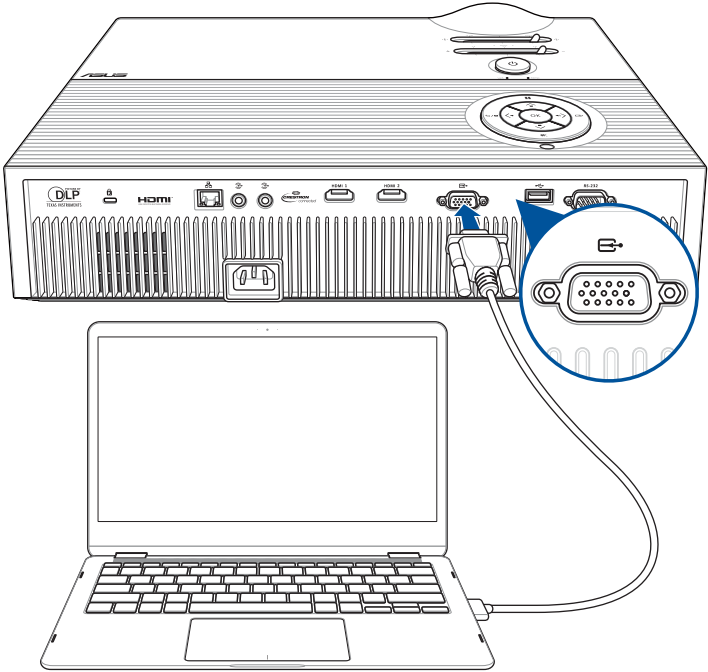
B. Audio output jack



C. HDMI



D. VGA



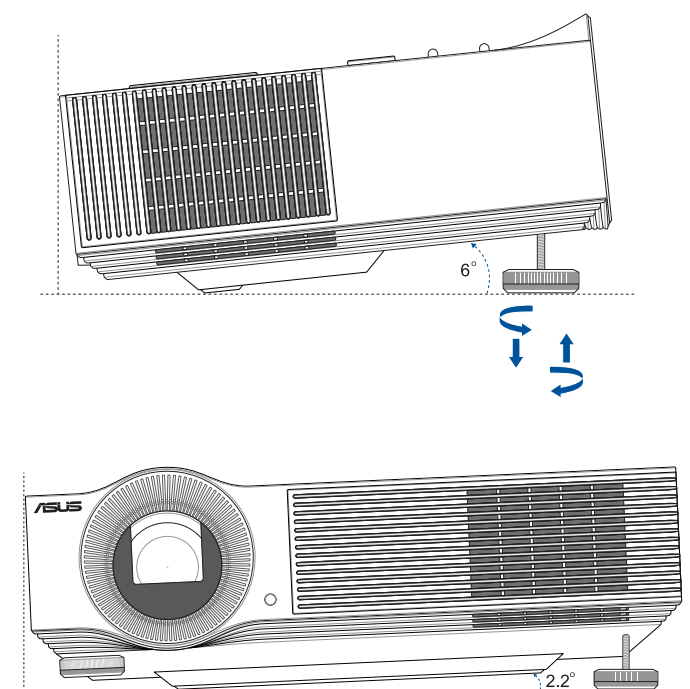
Adjust the height of the LED projector

Your LED projector comes with a built-in stand that helps adjust the image height onscreen.

WARNING! Ensure that the built-in stand is fully retracted before placing the LED projector inside the projector bag.

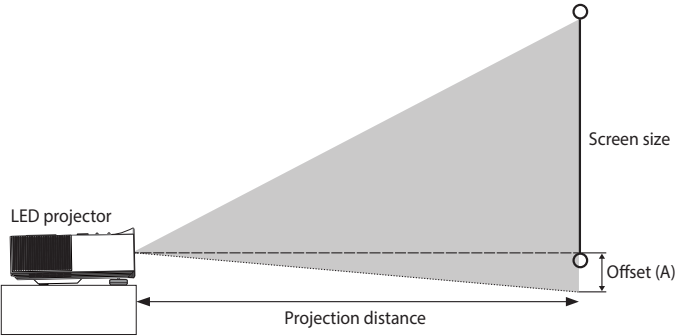
NOTE:

- Place the LED projector on a stable flat surface.
 - Keep a space of 30 cm or more between the sides of the LED projector.
 - Consult your dealer for special installation procedures like suspending the LED projector from the ceiling.
-



Screen size and projection distance

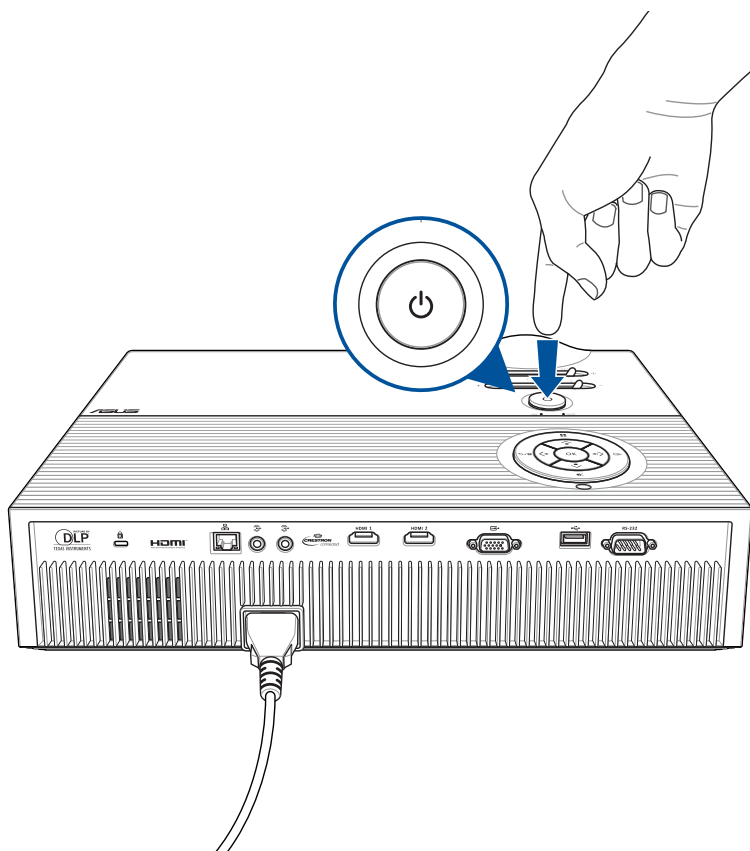
Adjust the LED projector's distance from the screen using the table below.



NOTE: The screen aspect ratio is 16:9 (1920 x 1080) and the projected image is in a 16:9 aspect ratio.

Screen Size				Projection Distance (mm)			Offset (mm)
Screen Diagonal		Width (mm)	Height (mm)	Min. distance (Max. zoom)	Average distance	Max. distance (Min. zoom)	A(mm) @wide mode
inch	mm						
60	1524	1328	747	1727	1899	2072	-62
70	1778	1550	872	2012	2216	2417	-73
80	2032	1771	996	2302	2533	2763	-83
90	2286	1992	1121	2590	2849	3108	-93
95	2413	2103	1183	2734	3007	3281	-99
100	2540	2214	1245	2878	3166	3454	-104
120	3048	2657	1494	3454	3799	4144	-125
150	3810	3321	1868	4317	4749	5180	-156

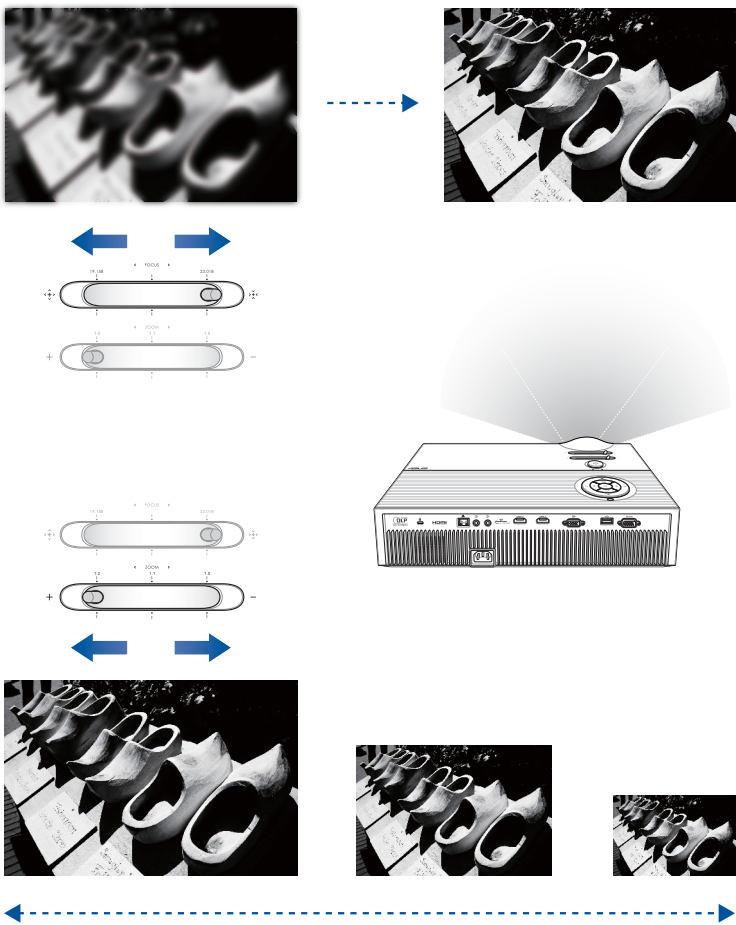
Press the power button



Adjust the image focus and size

NOTE: Use a still image when adjusting the onscreen display.

Move the focus lever to adjust the image focus, and move the zoom lever to adjust the projected screen size.



Chapter 3:
***Using the onscreen
display menu***

NOTE: The following screenshots are for reference only and may be updated without prior notice. Screenshots may also vary depending on the LED projector model.

Using your LED projector for the first time

Refer to the following steps when using your LED projector for the first time.

NOTE: Ensure that your LED projector is connected to the power adapter before turning it on for the first time. We strongly recommend that you use a grounded wall socket while using your LED projector on power adapter mode.

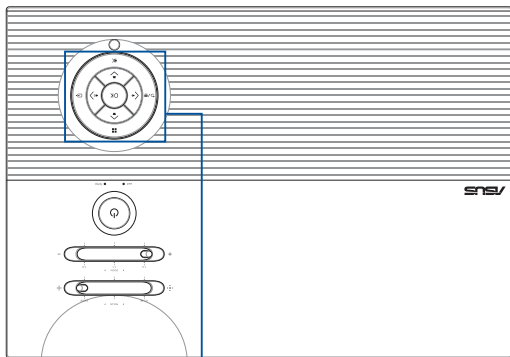
1. Set up your LED projector then press the power button.
2. Move the joystick left or right on your LED projector to browse through the available language options.
3. After you have chosen your preferred language, press the center of the joystick to set this language for use on your LED projector.
4. You may now start using your LED projector to display files from your input device. The **NO SIGNAL** screen may appear if no input device is connected or cannot be detected by the LED projector.

Adjusting your LED projector's settings

To adjust your LED projector settings:

1. Press **■** on your LED projector (or press the **Menu** button on your remote control) to launch the onscreen display menu.
2. Press the **Up** or **Down** button to select the menu option you would like to adjust.
3. Press **OK** button on your LED projector (or press the **Mode/OK** button on your remote control) to open the selected option's settings.
4. Press the **Left** or **Right** button to adjust the settings according to your preference.
5. When finished, press **OK** button on your LED projector (or press the **Mode/OK** button on your remote control) to save the new settings and go back to the home screen.

Remote control buttons

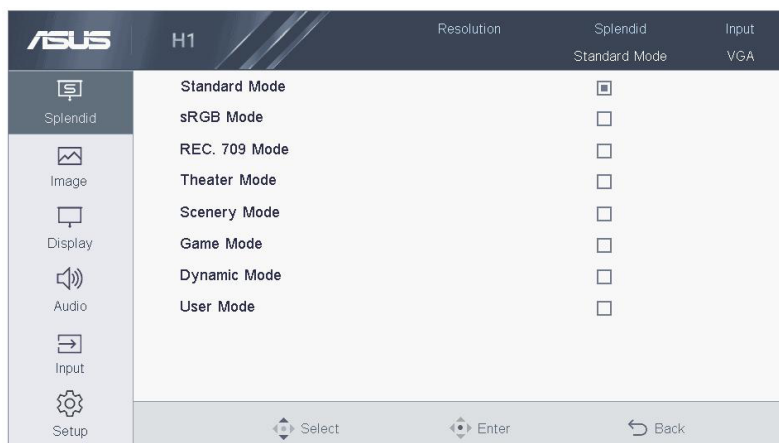


Control panel buttons

Onscreen display menu options

Splendid

The options under this menu allows you to select a suitable color mode according to different input source.



- **Standard Mode** - This option is optimized for document viewing.
- **sRGB Mode** - This option is compatible with sRGB color space.
- **Rec. 709 Mode** - This option is compatible with Rec. 709 color space.
- **Theater Mode** - This option is optimized for movie viewing.
- **Scenery Mode** - This option is optimized for scenery viewing.
- **Game Mode** - This option is optimized for video games.
- **Dynamic Mode** - This option is optimized for viewing in a bright environment.
- **User Mode** - This option allows you to apply your customized color configuration.

Image

The options under this menu allows you to adjust image options to fine tune your image projection onscreen.



- **Brightness** - Select this menu option to adjust the brightness of your projection onscreen.
- **Contrast** - Select this menu option to adjust the contrast of your projection onscreen.
- **Saturation** - Select this menu option to adjust the saturation of your projection onscreen.
- **Tint** - Select this menu option to adjust the tint of your projection onscreen.
- **Sharpness** - Select this menu option to adjust the sharpness of your projection onscreen.
- **Color Temperature** - This option allows you to adjust the color temperature of your LED projector.
- **Wall Color** - This option allows you to choose a proper color according to the wall.
- **Gamma** - Select this menu option to adjust the gamma of your projection onscreen.

- **Color Setting** - Select this menu option to adjust the color of your projection onscreen.
- **Color Reset** - Select this menu option to reset your color mode of your projection onscreen.

Display

The options under this menu allows you to adjust how the image projection will be displayed.



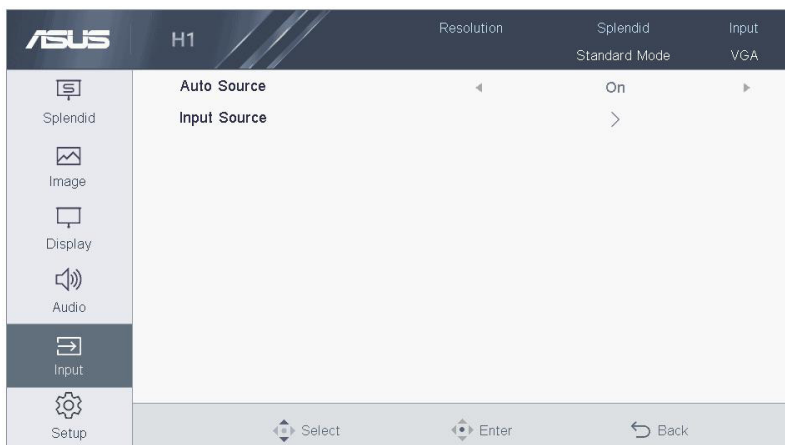
- **Projector Position** - This option allows you to change the way your projections are oriented onscreen based from the current location of your LED projector.
- **Keystone** - Select this option to adjust the keystone of your projection onscreen.
- **Aspect Ratio** - Select this option to adjust the screen ratio of your projection onscreen.
- **VGA settings** - Select this option to adjust the display settings from the VGA port.

NOTE: This option is only available when your LED projector is connected to a device with a VGA cable.

- **Digital Zoom** - This option allows you to zoom in, zoom out, and pan your projection onscreen.
- **3D** - Select this menu option to adjust 3D settings of your projection onscreen.

Input

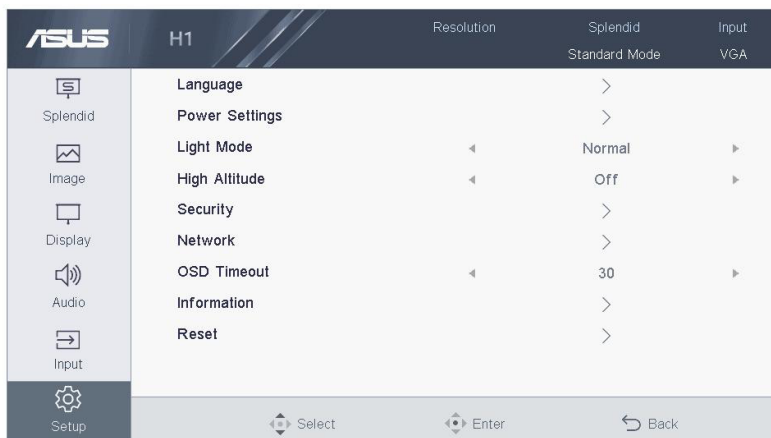
The options under this menu allows you to select the input source for your LED projector.



- **Auto Source** - This option allows you to turn Auto Source on or off. Turn this option on to scan the connected devices to your LED projector automatically.
- **Input Source** - This option allows you to manual select the input source to your LED projector.

Setup

The options under this menu allows you to configure system settings for your LED projector.



- **Language** - This option allows you to select the language to use on your LED projector's onscreen display menu.
- **Power Settings** - This option allows you to configure the power settings.

NOTE: The **DC 5V Out** option in the sub-menu allows you to configure whether the USB port supports power output when your projector is turned off.

- **Light Mode** - This option allows you to select different light mode for your projector.
- **High Altitude** - This option allows you to adjust the fan speed to reflect the environment.

On: Increases fan speed for high temperature, humidity or altitude.

Off: Standard fan speed for regular conditions.

- **Security** - This option allows you to change, enable or disable the security password.

Password Protection

On: A password is required to power on your LED projector and to enter the Security menu.

Off: No password is required.

Change Password

Follow the on-screen instructions to change the password. (Default password: press the arrow [up-down-left-right] on the Control panel.)

NOTE:

- After changing your password, press **Back** to save the new password and exit.
 - Ensure to make a note of your password and keep the note in a secure place.
-

- **Network** - This option allows you to configure the network settings.

NOTE: The sub-menu is only available when a network cable is connected to your LED projector.

Network	
Network	◀ Off ▶
Status	Disconnect
DHCP	◀ On ▶
IP Address	000.000.000.000
Subnet Mask	000.000.000.000
Apply	>
MAC Address	000.000.000.000

 Select
  Enter
  Back

Network

This option allows you to turn on or off the network while your LED projector is powered off.

Status

Your current network status.

DHCP

This option allows you to turn on or off the DHCP settings.

On: The IP address and Subnet Mask are assigned by your network automatically.

Off: Set the IP address and Subnet Mask manually.

Apply

After entering the IP address or Subnet Mask manually, select **Apply**, then select **Yes** to save the changes.

MAC Address

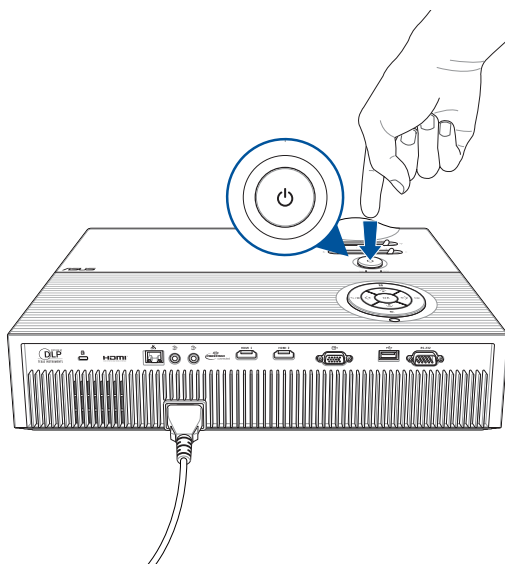
The current MAC address of your LED projector. (This projector supports two remote control systems: RoomView and X-Panel.)

- **OSD Timeout** - This option allows you to set the number of seconds before the onscreen display menu disappears from your projection screen.
- **Information** - Select this menu option to see an overview of information about your LED projector.
- **Reset** - This option allows you to reset all the settings you have currently set up for your LED projector.

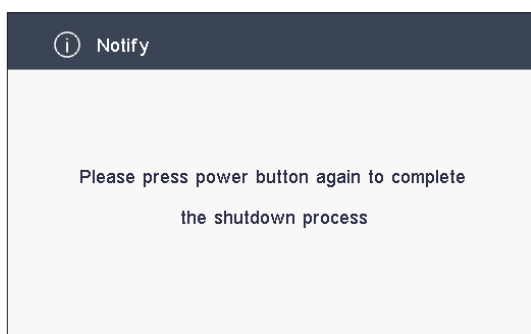
NOTE: Please wait for at least eight (8) seconds for the reset process to complete, then reselect a language.

Turning off your LED projector

1. Press the power button.



2. When the following screen appears, press the power button again to completely turn off your LED projector.



Using 3D glasses

Your LED projector supports 3D technology for an enhanced viewing experience.

IMPORTANT! Purchase DLP Link 3D glasses. Your 3D files must be compatible with the 3D format.

NOTE: For more details on viewing 3D files, refer to the user guide that comes with your 3D glasses.

To view 3D files:

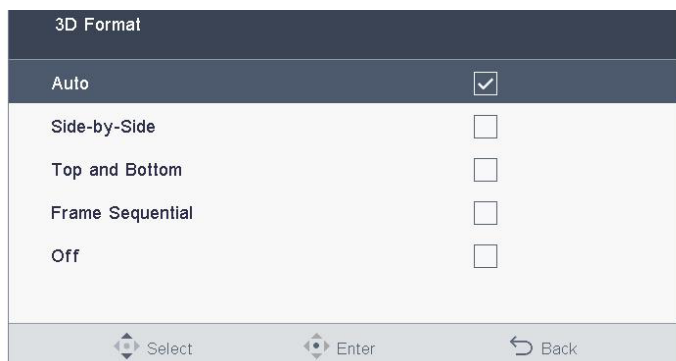
1. Play your 3D file, then navigate to **Display > 3D** on your LED projector.

NOTE: The 3D mode is set to **Auto** by default.

2. Select **Auto** to allow your LED projector to automatically select a 3D mode best suited for your 3D file.

NOTE: Select a 3D mode manually if your LED projector cannot detect which 3D mode to use.

IMPORTANT! Set the 3D mode back to **Off** to exit 3D mode.



Multi-language versions

Download other language versions of this E-Manual via this website:

<https://www.asus.com/support>

Appendices

Compliance Statement of Innovation, Science and Economic Development Canada (ISED)

This device complies with Innovation, Science and Economic Development Canada licence exempt RSS standard(s). 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.

CAN ICES-3(B)/NMB-3(B)

Déclaration de conformité de Innovation, Sciences et Développement économique Canada (ISED)

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-3(B)/NMB-3(B)

Regional notice for California



WARNING

Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

Global Environmental Regulation Compliance and Declaration

ASUS follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASUS product is in line with global environmental regulations. In addition, ASUS disclose the relevant information based on regulation requirements.

Please refer to <http://csr.asus.com/english/Compliance.htm> for information disclosure based on regulation requirements ASUS is complied with:

Japan JIS-C-0950 Material Declarations

EU REACH SVHC

Korea RoHS

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials. Please go to <http://csr.asus.com/english/Takeback.htm> for detailed recycling information in different regions.

Canadian Department of Communications Statement

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.

Specifications for H1 series LED projector

		H1
Display	Display Technology	0.65" DLP®
	Light Source	R/G/B LED
	Light Source Life	30,000 hours (Max)
	True Resolution (native)	FHD 1920x1080
	Light Output (Max)	3000 Lumens
	Contrast Ratio	800:1 (Typical)
	Color Saturation (NTSC)	125% Rec. 709/sRGB
	Display Colors	1.07 Billion Colors
Projection Lens	Throw Ratio (@16:9)	1.3~1.56 (100" @2.85m)
	Projection Distance	1.15 ~ 5.7 meters
	Projection/Screen Size	40 ~ 200 inches
	Projection Offset	83±5%
	Zoom Ratio	1.2x
	Focus	Manual focus
Video Features	Picture Modes	8 Modes (Standard Mode, sRGB Mode, Rec. 709 Mode, Theater Mode, Scenery Mode, Game Mode, Dynamic Mode, User Mode)
	Keystone Adjustment	Vertical keystone correction (±40°)
	Auto Keystone	Yes (Vertical)
	Aspect Ratio	Auto /16:10 / 16:9 / 4:3
	Projector Placement	Front Table, Rear Table, Front Ceiling, Rear Ceiling

(continued on the next page)

		H1
Audio Features	Built-in Speakers	10W (speakers)
Signal Frequency	Analog Signal Frequency	Horizontal: 15 ~ 101 KHz Vertical: 50 ~ 120 Hz
	Digital Signal Frequency	Horizontal: 15 ~ 101 KHz Vertical: 24 ~ 120 Hz
Power	Standby Mode	<0.5W
	Power Consumption	360W (Max.)
Noise Level	Acoustic Noise	32dBA (Standard Mode) / 28dBA (Theater Mode)
I/O Ports	Signal Input	2 x HDMI 2.0 1 x VGA
	Audio	Audio in / Audio out (3.5mm mini-jack)
	Control	Yes (1 x RJ45, Crestron Connected; 1 x RS-232)
	USB Port	1 x USB
Mechanical Design	IR Receiver	Front and top
	Adjustment Foot	Yes
	Ceiling Mount	Yes
Security	Kensington Lock	Yes
Dimension	Physical Dimension	405(W) x 283(H) x 99(D) mm (without feet)
	Box Dimension	560(W) x 430(H) x 274(D) mm

(continued on the next page)

		H1
Weight	Net Weight (Esti.)	5.7 Kg
	Gross Weight (Esti.)	8.1 Kg
Operating Temperature		0 ~ 40°C
Operating Humidity		20 ~ 90%
Accessories		HDMI cable, Power cord, Remote control, Quick Start Guide, Warranty card

- * Specifications are subject to change without prior notice.
- ** Product availability may vary by region.
- *** All brand and product names mentioned are trademarks of their respective companies.

Supported PC Timings

VGA

Resolution	Mode	Refresh rate (Hz)	H-frequency (kHz)
720 x 400	720 x 400_70	70.087	31.469
640 x 480	VGA_60	59.94	31.469
	VGA_72	72.809	37.861
	VGA_75	75	37.5
	VGA_85	85.008	43.269
800 x 600	SVGA_60	60.317	37.879
	SVGA_72	72.188	48.077
	SVGA_75	75	46.875
	SVGA_85	85.061	53.674
	SVGA_120 (Reduce Blanking)	119.854	77.425
1024 x 768	XGA_60	60.004	48.363
	XGA_70	70.069	56.476
	XGA_75	75.029	60.023
	XGA_85	84.997	68.667
	XGA_120 (Reduce Blanking)	119.989	97.551
1152 x 864	1152 x 864_75	75	67.5
1280 x 720	1280 x 720_60	60	45
1280 x 768	1280 x 768_60 (Reduce Blanking)	60	47.396
	1280 x 768_60	59.87	47.776
1280 x 800	WXGA_60	59.81	49.702
	WXGA_75	74.934	62.795
	WXGA_85	84.88	71.554
	WXGA_120 (Reduce Blanking)	119.909	101.563
1280 x 1024	SXGA_60	60.02	63.981
	SXGA_75	75.025	79.976
	SXGA_75	85.024	91.146
1280 x 960	1280 x 960_60	60	60
	1280 x 960_85	85.002	85.938
1360 x 768	1360 x 768_60	60.015	47.712
1366 x 768	1366 x 768_60	59.79	47.712
1440 x 900	WXGA+_60 (Reduce Blanking)	60	55.469
	WXGA+_60	59.887	55.935
1400 x 1050	SXGA+_60	59.978	65.317
1600 x 1200	UXGA	60	75
1680 x 1050	1680 x 1050_60 (Reduce Blanking)	59.883	64.674
	1680 x 1050_60	59.954	65.29
640 x 480@67Hz	MAC13	66.667	35
832 x 624@75Hz	MAC16	74.546	49.722
1024 x 768@75Hz	MAC19	74.93	60.241
1152 x 870@75Hz	MAC21	75.06	68.68
1920 x 1080 (VESA)	1920 x 1080_60	60	67.5
1920 x 1200	1920 x 1200_60 (Reduce Blanking)	59.95	74.038

3D Video Format Timings (HDMI only)

Video Mode	Resolution	Frame sequential	Frame Packing	Top-and-Bottom	Side-by-side (Half)
480i	720(1440) x 480	v			
480p	720 x 480	v		v	v
576i	720(1440) x 576	v			
576p	720 x 576	v		v	v
720/50p	1280 x 720	v	v	v	v
720/60p	1280 x 720	v	v	v	v
1080/50i	1920 x 1080	v		v	v
1080/60i	1920 x 1080	v		v	v
1080/24p	1920 x 1080		v	v	
1080/50p	1920 x 1080	v		v	v
1080/60p	1920 x 1080	v		v	v

HDMI (PC)

Resolution	Mode	Refresh rate (Hz)	H-frequency (kHz)
720 x 400	720 x 400_70	70.087	31.469
640 x 480	VGA_60	59.94	31.469
	VGA_72	72.809	37.861
	VGA_75	75	37.5
	VGA_85	85.008	43.269
800 x 600	SVGA_60	60.317	37.879
	SVGA_72	72.188	48.077
	SVGA_75	75	46.875
	SVGA_85	85.061	53.674
	SVGA_120 (Reduce Blanking)	119.854	77.425
1024 x 768	XGA_60	60.004	48.363
	XGA_70	70.069	56.476
	XGA_75	75.029	60.023
	XGA_85	84.997	68.667
	XGA_120 (Reduce Blanking)	119.989	97.551
1152 x 864	1152 x 864_75	75	67.5
1280 x 720	1280 x 720_60	60	45
1280 x 768	1280 x 768_60 (Reduce Blanking)	60	47.396
	1280 x 768_60	59.87	47.776
1280 x 800	WXGA_60	59.81	49.702
	WXGA_75	74.934	62.795
	WXGA_85	84.88	71.554
	WXGA_120 (Reduce Blanking)	119.909	101.563
1280 x 1024	SXGA_60	60.02	63.981
	SXGA_75	75.025	79.976
	SXGA_85	85.024	91.146
1280 x 960	1280 x 960_60	60	60
	1280 x 960_85	85.002	85.938
1360 x 768	1360 x 768_60	60.015	47.712
1366 x 768	1366 x 768_60	59.790	47.712
1440 x 900	WXGA+_60 (Reduce Blanking)	60	55.469
	WXGA+_60	59.887	55.935
1400 x 1050	SXGA+_60	59.978	65.317
1600 x 1200	UXGA	60	75
1680 x 1050	1680 x 1050_60 (Reduce Blanking)	59.883	64.674
	1680 x 1050_60	59.954	65.29
1920 X 1200	1920 X 1200_60 (Reduce Blanking)	59.95	74.038
640 x 480@67Hz	MAC13	66.667	35
832 x 624@75Hz	MAC16	74.546	49.722
1024 x 768@75Hz	MAC19	75.020	60.241
1152 x 870@75Hz	MAC21	75.06	68.68
1920 x 1080 (VESA)	1920 x 1080_60	60	67.5
3840 x 2160	3840 x 2160_30	30	67.5
3840 x 2160	3840 x 2160_60	60	135
1920 x 1080@120Hz	1920 x 1080_120 (only HDMI 2.0 support)	120	135

HDMI (Video)

Timing	Resolution	Horizontal frequency (Hz)	Vertical frequency (Hz)	Dot Clock frequency (kHz)
480i	720(1440) x 480	15.73	59.94	27
480p	720 x 480	31.47	59.94	27
576i	720(1440) x 576	15.63	50	27
576p	720 x 576	31.25	50	27
720/50p	1280 x 720	37.5	50	74.25
720/60p	1280 x 720	45.00	60	74.25
1080/50i	1920 x 1080	28.13	50	74.25
1080/60i	1920 x 1080	33.75	60	74.25
1080/24P	1920 x 1080	27	24	74.25
1080/50P	1920 x 1080	56.25	50	148.5
1080/60P	1920 x 1080	67.5	60	148.5
2160/24P	3840 x 2160	54	24	297
2160/25P	3840 x 2160	56.25	25	297
2160/30P	3840 x 2160	67.5	30	297
2160/50P	3840 x 2160	112.5	50	594
2160/60P	3840 x 2160	135	60	594