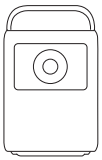
What's Included



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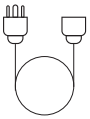


2

3

4

5

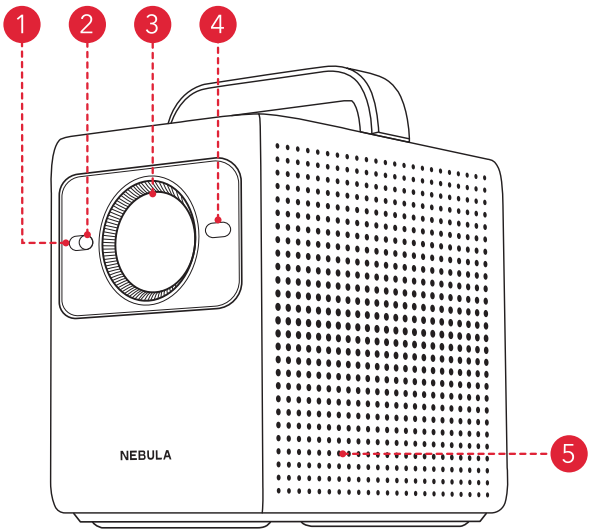
1. NEBULA Cosmos 4K SE
2. AC Cable

   *The number of cables provided and the type of plug may vary by region.
3. Remote Control
4. AAA Batteries
5. Quick Start Guide

At a Glance

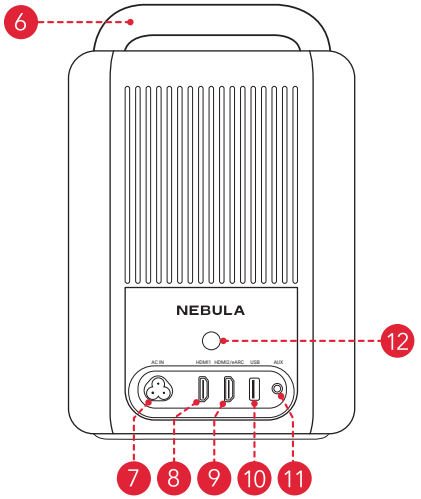
1. Projector

Front View



1. Illuminance Sensor
2. Image Sensor
3. Lens
4. ToF (Time of Flight)
5. Speaker

Rear View



6 Handle

7 AC IN

- Connect to power supply.

8 HDMI 1

- Connect to a playback device with HDMI output.

9 HDMI 2 / eARC

- Connect to a playback device with HDMI output and support the connection of external devices such as sound systems for audio return capabilities.

10 USB-A

- Connect to a USB storage device.

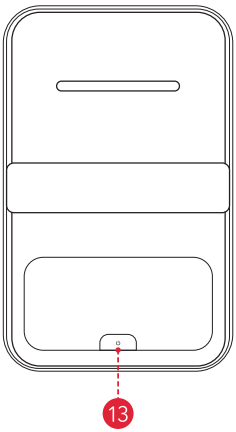
11 AUX

- Connect to headphones or an external speaker.

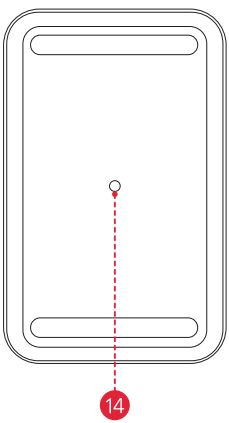
12 Infrared Receiver

- Receive infrared control signals from the remote control.

Top and Bottom View



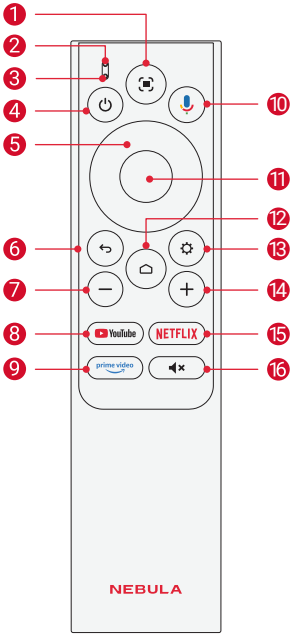
13 Power Button



14 1/4" Tripod Socket

- The 1/4" Tripod Socket can be used to connect a tripod, stand, ceiling mount, etc.

2. Remote Control



1. Auto image adjustment
2. Status indicator
3. Microphone
4. Power on / off / switch to standby mode
5. Navigation
6. Return button
7. Volume down
8. Open YouTube
9. Open Prime Video
10. Activate the Google Assistant
11. Confirm a selection / pause / resume
12. Access the home menu
13. Access more options
14. Volume up
15. Open Netflix
16. Press to mute or unmute the sound

3. LED Light Guide

Button	LED Status	Description
	Steady Blue	Powered On
	Light Off	Powered Off
	Steady Red	Standby Mode

Getting Started

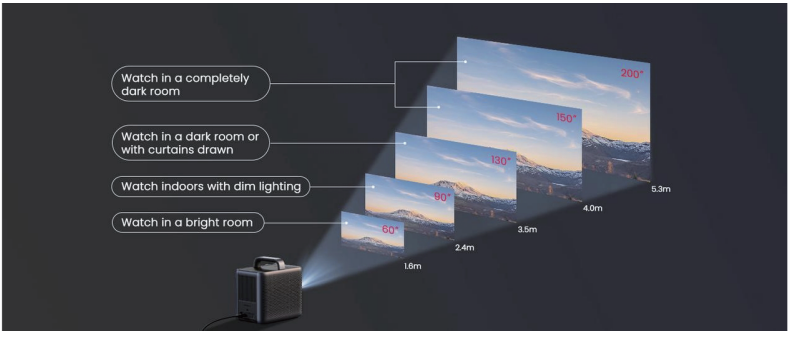
1. Prepare Your Projector

You can position your projector in the following ways.

- Front: The projector is placed on the table in front of the screen. This is the most common way to position the projector for quick setup and portability.
- Rear: The projector is placed on the table behind the screen. A special rear projector screen is required.
- Front Ceiling: The projector is suspended upside-down in front of the screen. The ceiling/wall mount kit is required.
- Rear Ceiling: The projector is suspended upside-down from behind the screen. A special rear projector screen and ceiling/wall mount kit are required.

- After powering on the projector, press the Settings button on the projector, then go to **[Projector] > [Advanced Settings] > [Projector Mode]** and select a setting.
- It is unnecessary to tilt the projector toward the projection surface. This device is featured with auto focus and auto keystone correction.
- You may also install the projector onto a tripod (sold separately).
- The distance between the projector lens and the screen determines the projection image size.

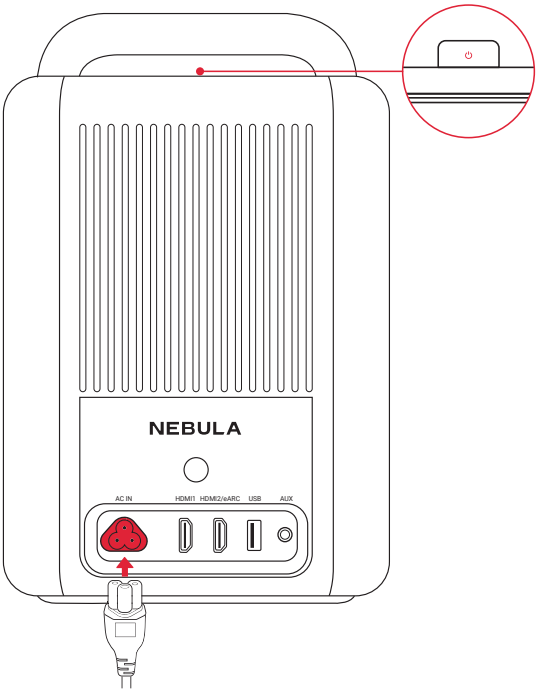
Screen Size	Distance Between Projector Lens and Screen
60 inches	1.59m/ 5.22 ft
70 inches	1.86m/ 6.10 ft
80 inches	2.13m/ 6.99 ft
90 inches	2.39m/ 7.84 ft
100 inches	2.66m/ 8.73 ft
110 inches	2.92m/ 9.58 ft
120 inches	3.19m /10.47 ft
130 inches	3.45m/11.32 ft
140 inches	3.72m/12.20 ft
150 inches	3.99m /13.09 ft
160 inches	4.25m /13.94 ft
170 inches	4.52m /14.83 ft
180 inches	4.78m /15.68 ft
190 inches	5.05m /16.57 ft
200 inches	5.31m /17.42 ft



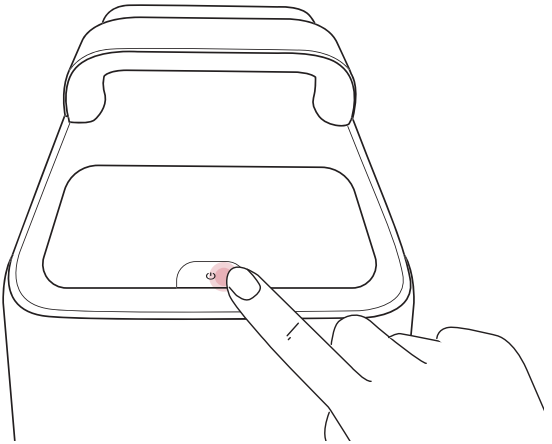
2. Connect to Power

Connect the power cord to NEBULA Cosmos 4K SE and then to the power supply.

When successfully connected to the power supply, the power button on the projector will light up in red.



3. Power On/Off



- Power On: Press the power button once.

*When the projector is powered on, the power button will turn steady blue.

- Power Off:

  Step 1: Press and hold the power button for 3 seconds (wait for on-screen prompt).

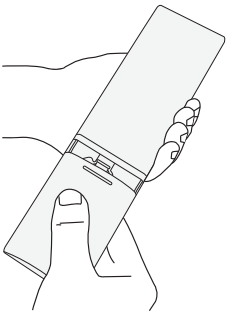
  Step 2: Confirm power off with the remote control or wait 20 seconds for automatic power off.

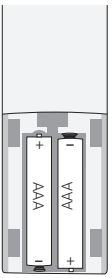
- Standby Mode: Short press the power button to enter standby mode.

4. Prepare the Remote

① Slide to open the battery compartment.

② Insert new batteries matching the polarity (+/-) and close the battery compartment.





③ For first-time use, follow the on-screen instructions to pair the remote with your projector.

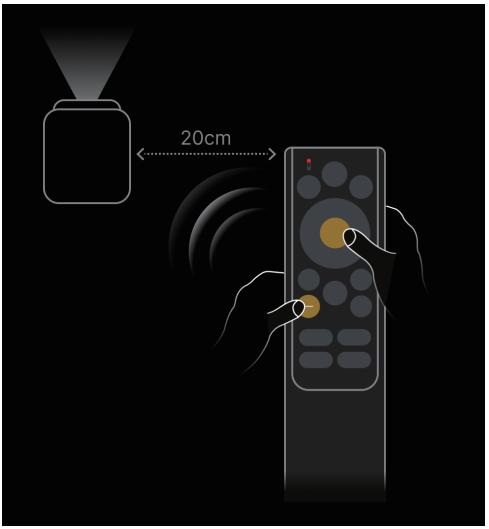
- The distance between the remote and the projector should not exceed 10 m / 33 ft.

5. Connect the Projector with the Remote Control

After powering on the projector, follow the on-screen instructions to pair your remote control with the projector.

① Place the remote control within 20cm of the projector.

② Press and hold the confirm and volume down buttons for several seconds until the prompt of successful Bluetooth connection appears.



- Activating Google Assistant via remote control is unavailable without Bluetooth connection.

6. Auto Focus and Auto Keystone Correction

How to trigger auto focus:

a. Press the [Auto image adjustment] button on the remote control.

b. Auto-trigger upon powering on.

c. Auto-trigger after moving the projector.

How to perform manual focus:

Go to **[Settings] > [Projector] > [Focus Settings] > [Manual Focus Correction].**

How to trigger Auto Keystone Correction:

After enabling Auto Keystone Correction in **[Settings] > [Projector] > [Image Correction] > [Auto Keystone Correction Settings]**, Auto Keystone Correction will be triggered in the following scenarios:

a. Pressing the [Auto image adjustment] button on the remote control.

b. Auto-trigger upon powering on.

c. Auto-trigger after moving the projector.

How to perform manual keystone correction:

Go to **[Settings] > [Projector] > [Image Correction] > [Perform Manual Keystone Correction].**

Nebula Connect App

To easily control the projector, we recommend you download the Nebula Connect app.

① Download the **Nebula Connect** app from the App Store (iOS devices) or Google Play (Android devices).

② Enable Bluetooth on your smartphone.

③ Open the Nebula Connect app and select **[NEBULA Cosmos 4K SE]** as the device to be connected.

④ Follow the on-screen instructions to complete connection setup.

Settings

Go through the setup process when you power on the projector for the first time.

1. Network

This projector can be connected to the Internet via a wireless (Wi-Fi) connection.

① On the home page, select **[Settings] > [Network & Internet]** and press confirm.

② Follow the on-screen instructions to complete the network connection.

2. Projector

On the home page, select **[Settings] > [Projector]** and press confirm.

[Image Correction]	**Auto Keystone Correction Settings** **[Auto Keystone Correction By Remote]**: Enable or disable auto keystone correction by remote. **[Auto Keystone Correction At Startup]**: Automatically perform keystone correction when the projector powers on. **[Auto Keystone Correction After Movement]**: Automatically perform keystone correction when you move the projector. **[Real Time Keystone Correction]**: During the movement of the device, it continuously and quickly performs keystone correction to transform the image into a rectangular shape. **[Auto Screen Fit]**: Enable or disable auto screen fit (applicable to screens with black borders on all four sides). **[Auto Obstacle Avoidance]**: Enable or disable auto obstacle avoidance. **[Perform Manual Keystone Correction]**: Manually perform keystone correction by adjusting each corner. **[One-click Image Correction]**: Automatically adjust the image to a rectangle. **[Zoom]**: Zoom in or out of the projection image from 50% to 100%.
[Focus Settings]	**[Auto Focus At Startup]**: Automatically adjust the focus when the projector powers on. **[Auto Focus After Movement]**: Automatically adjust the focus when you move the projector. **[Manual Focus Correction]**: Perform manual focus correction.

[Advanced Settings]	**[Eye Guard]**: Eye Guard protects your eyes from bright light from the projector display. **[Wall Color Adaptation]:** This feature allows you to achieve more accurate colors when projecting onto colored walls. **[Projection Mode]**: Select a way of placing the projector. • **[Auto]**: Automatically detects whether the projector is inverted. Automatically switch between these options. • **[Front]**: The device is located in front of the projection surface. • **[Front Ceiling]**: The device is hanging from the ceiling in an upside-down position. The image is rotated by 180 degrees. • **[Rear]**: The device is located behind the projection surface. • **[Rear Ceiling]**: The device is hanging from the ceiling in an upside-down position behind the projection surface. The image is rotated by 180 degrees and horizontally mirrored.
	[Motion Settings]: Set a sensitivity level for the G-sensor to trigger auto focus and auto keystone correction after movement.
	[Smart Solutions]: Receive alerts when issues are detected. • **[Projection Issue Alerts**]: Receive alerts when issues are detected. • **[Fine Tuning Popup]**: Receive a popup after Seamless Auto Keystone Correction. • **[Nebula Smart Popup]**: Receive prompts when the projector status changes. • **[Laser Overheating Protection]**: Detect obstacles at close range and automatically reduce brightness to prevent overheating.

[Display & Sound]	**Picture** **[Brightness]:** Adjust the brightness of the projector display. • **Ambient Light Adaptation:** Automatically adjusts brightness and contrast based on the surrounding light conditions.
	[Picture Mode]: The projector is preset with several predefined picture modes so that you can choose one to suit your environment and input source. • **[NebulaMaster]**: Enjoy immersive, true-to-life, and vibrant visuals. • **[Standard]:** Keeps natural looking colors with a balance of warm and cool tones. • **[Vivid]:** Provides bold colors for streaming content. • **[Sport]:** Provides a faster response time for sports scenes. • **[Movie]:** Provides the best colors for watching movies. • **[Game]:** Increases the brightness and response time level for playing video games. • **[Conference]:** Increases the brightness but affects the color reproduction.

	[Advanced Settings]: Customize advanced settings to enhance image quality. • **[Color Temperature]**: Adjusts the warmth or coolness of colors. • **[DNR]**: Reduces noise for a clearer image. • **[MPEG NR]**: Minimizes compression artifacts. • **[DI Film Mode]**: Provides smoother transitions in movie scenes. • **[Gamma]**: Adjusts mid-tones, impacting brightness and contrast. • **[MEMC]**: Improves motion smoothness. • **[Color Space]**: Select appropriate color space. • **[Color Tuner]**: Fine-tunes color performance. • **[11 Point White Balance Correction]**: Fine-tuning improves color accuracy.

	Sound **[Movie]**: Creates a surround-sound listening experience for watching movies. **[Music]**: Enhances the treble for listening to music. **[Outdoors]**: Increases volume for playing audio / video outdoors. **[Custom]**: Manually set audio settings such as balance, bass, and treble. **[Turn on the Bluetooth Speaker Mode]**: Enable to use the projector as a Bluetooth speaker. **[Speaker Delay]**: To synchronize the sound with the image, adjust the sound delay by 10 milliseconds for each operation. **[Expert Settings]**: Customize advanced settings to enhance audio quality. • eARC: Supports the connection of external devices such as sound systems for audio return capabilities.
	Audio Output **[Auto]:** Automatically select the best audio output mode. **[Bypass]:** Pass the digital audio signal through without processing it, allowing the connected device to decode the audio. **[PCM]**: Output audio in PCM format. **[Dolby Digital Plus]**: Output audio in the Dolby Digital Plus format. **[Dolby Digital]**: Output audio in the Dolby Digital format. **[Digital Output Delay]**: Adjust the delay of the digital audio output to synchronize the sound with the video.

3. Apps

① On the home page, select **[Settings] > [Apps]** ,and press confirm.

② Select an app and check the current version, open or force stop the app, check the storage used, clear data or cache, uninstall the app, or enable or disable notifications and permissions.

4. System

On the home page, select **[Settings] > [System]** and press confirm.

[Acessibility]	Change the caption settings or enable accessibility service.
[About]	Check the product information, update the system, reset the device, or rename the device.
[Date & Time]	Enable or disable automatic date and time. Manually set date and time, select time zone, or set time format.
[Language]	Select an on-screen display language.
[Keyboard]	Check and manage keyboards.
[Storage]	Check the device storage and free up storage.
[Ambient Mode]	Set your preferences to display photos, weather, and time on your Google TV.
[Power & Energy]	Change the auto-sleep settings, choose the power on behavior, turn off the current display, or set auto power-off time when no signal is available.
[System Sounds]	Turn on/off system sound notifications.
[Restart]	Restart the system.

5. Others

On the home page, select **[Settings]** to find more setting options.

[Accounts & Sign-in]	Sign in to make the most of Google TV.
[Privacy]	Customize your privacy preferences.

[Remotes & Accessories]	Search for accessories (such as Bluetooth speakers, remote control, etc.) for pairing.
[Help & Feedback]	Leave your feedback on the projector or share any other ideas.

Using Your Projector

1. Select an App

Once connected to a wireless network, you can access online services, enjoy movies, music and pictures, and browse online. You can download more apps from Google Play.

① Press home page icon to access the home page.

② Select **[Apps] > [Search for apps and games]**.

2. Voice Assistant

After pairing your remote control with the projector via Bluetooth, press the Google Assistant button on the remote, you can speak to the Google Assistant and request your commands.

3. Wireless Casting

You can wirelessly cast movies, games, music, and entire screen from your iOS, macOS, Android, or Windows device to NEBULA Cosmos 4K SE.

3.1 Cast In-App Content

You can cast content from apps that support Chromecast, such as YouTube and Prime Video.

① Connect your device and projector to the same wireless network.

② Open the streaming app on your device.

③ Play a video clip and tap the cast icon on the video screen.

④ Select NEBULA Cosmos 4K SE to connect. The projector will mirror the video screen on your device.

- To cast in-app content, make sure you are using the same streaming service account on both the mobile phone and the projector.
- Certain content cannot be cast on NEBULA Cosmos 4K SE due to copyright restrictions. You can stream the content via the same app installed on your projector.

3.2 Cast Device Screen

You can cast the entire screen from your device to the projector. Before that, please ensure NEBULA Cosmos 4K SE and your device are connected to the same wireless network.

For iOS devices:

1. Install the **Nebula Cast** app on your projector.
2. Open **Nebula Cast** app and follow the on-screen instructions to complete the process.
3. Access the Control Center of your device and click Screen Mirror icon.
4. Click on "**NEBULA Cosmos 4K SE**" in the device list.

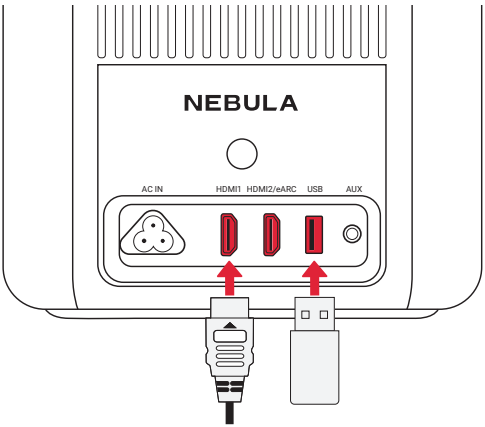
For Android devices:

1. Enter Google Home APP and select "**NEBULA Cosmos 4K SE**".
2. Tap [Cast my screen] icon on the page.

4. Play from HDMI / USB Devices

This projector supports connections with vairous HDMI playback devices such as TV sticks, TV boxes, DVD players, set-top boxes (STB), game consoles, or other devices.

With this projector, you can also enjoy music, video, and pictures that are stored on a USB storage device (not inlcuded).



The HDMI2/eARC port supports the connection of external devices such as sound systems for audio return capabilities.

5. Bluetooth Speaker Mode

The projector can also be used as a Bluetooth speaker.

1. Go to **[Settings] > [Display & Sound] > [Sound] > [Bluetooth Speaker Mode]** to switch your Nebula projector from Projector Mode to Bluetooth Speaker Mode.
2. Enable Bluetooth on your smartphone and select [**NEBULA Cosmos 4K SE**] as the device to be connected.

To exit Bluetooth Speaker Mode, press the return button on the remote control.

6. Connect the Projector to an External Bluetooth Speaker

1. Turn on your Bluetooth speaker and set it to pairing mode (refer to your speaker's manual for specific instructions as the process may vary).
2. Go to **[Settings] > [Remotes & Accessories]** in the project's settings. Find your Bluetooth speaker's name and select it to pair.
3. Once paired successfully, the projector's audio will be output through the external Bluetooth speaker.

Other Bluetooth accessories can also be connected to the projector via the above-mentioned process.

System Update

To fully enhance your experience with this product with the latest features, you are recommended to update the system from time to time.

To update the system, go to **[Settings] > [System] > [About] > [System update]**.

Troubleshooting

① Cannot Charge

- Use the included adapter and charging cable to charge the projector.

② Cannot Connect to a Wi-Fi Network

- Place your projector within 16 ft / 5 m of the router and reconnect.
- Set your router to 2.4 GHz or 5 GHz and retry.
- Restart your projector and router and retry.
- Try a different Wi-Fi network or your phone's hotspot.

③ Blurry Image

- Ensure that the Camera/TOF on the front panel is not blocked or dirty.
- Slightly move the projector or press the auto focus icon on the remote to start auto focus.
- To manually adjust the focus, go to **[Settings] > [Projector] > [Focus Settings] > [Manual Focus Correction]**, and use left and right on the remote.
- Adjust the projection angle and direction as well as the height of the projector if necessary.
- For auto-focus to function properly, the distance between the projector and the screen should be between 1.5 to 4 meters.

④ Auto Keystone Correction Failed

- Ensure that the Camera/TOF on the front panel is not blocked or dirty.
- The best automatic keystone correction distance is 1.0-4.0m, horizontal ±30°@3m/ ±10°@4m.

⑤ Auto Screen Fit Failed

- Ensure the screen is rectangular with black borders.
- Check if the screen color contrasts sharply with the borders; avoid using screens that are close to black in color.
- Ensure the distance between the screen and the projector is within 4 m.
- Ensure the screen border width is 5mm.
- Ensure the projected image covers the entire screen.
- Ensure the screen size is at least 10% larger than the projection area.
- Ensure the central grid is within the screen and not obstructed.
- If auto screen fit failed, you can perform manual keystone correction via **[Settings] > [Projector] > [Image Correction] > [Perform Manual Keystone Correction].**

⑥ Eye Guard Failed

- Ensure that the Camera/TOF on the front panel is not blocked or dirty.
- Eye Guard feature works best at at a distance of 10 cm to 4 m.
- Go to **[Settings] > [Projector] > [Advanced Settings] > [Eye Guard]** and check if the feature has been enabled.

⑦ Wall Color Adaptation Failed

- Ensure that the Camera/TOF on the front panel is not blocked or dirty.
- Ensure the image is projected onto a light-colored wall (color temperature between 3500K and 15000K, color coordinates within 0.45).

⑧ No HDMI Signal

- Use a different HDMI cable.
- Connect your projector with another HDMI playback device.
- Connect the HDMI playback device to your TV via HDMI cable to check if the device or cable malfunctions.
- Adjust the HDMI playback device's output resolution / frequency to be the same as the projector's.

⑨ No Sound Output from External Speakers

- Check if the projector is set to mute mode.
- Check if the projector's "HDMI2/eARC" port or Bluetooth is connected to an external audio device.

⑩ How to Control Netflix with Mouse Mode

- Install **Nebula Connect** on your phone and connect with **NEBULA Cosmos 4K SE**. Select Mouse mode. Use one finger to move and click, or two fingers to scroll.

⑪ How to Play Videos without Wi-Fi

- Download videos to a USB drive in FAT32 format. For the following steps, see **Play Videl from HDMI / USB Devices.**

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