

FCC ID:2AOKB-D2241

NEBULA

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Nebula Prizm II Pro User Manual

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Model: D2241

51005001300 V01

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Important Safety Instructions

Read and understand all instructions before you use this device. Do not change any settings that are not described in this manual. If physical injury, loss of data, or damage is caused by failure to follow instructions, the warranty does not apply.

Setup

- To reduce the risk of fire and/or electric shock, do not expose the device to rain or moisture, and objects filled with liquids, such as vases, should not be placed on the device.
- Do not place the device in areas susceptible to excessive dust and dirt or near any appliance generating a strong magnetic field.
- To prevent overheating, do not block or clog the ventilation openings.
- Never place the device in a confined space. Always leave enough space around the device for ventilation.
- Protect the device against direct sunlight, heat, large temperature fluctuations, and moisture.
- When the device runs for a long period of time and the surface becomes hot, shut it down and unplug the power cord. Resume operation only after the device has cooled.
- Always handle the device with care. Avoid touching the lens.
- Never place heavy or sharp objects on the device or the power cord.
- To avoid electric shock, do not disassemble.
- Only use attachments or accessories specified by the manufacturer.
- Avoid extreme vibration. It may damage the internal components.
- Do not allow children to handle the device without supervision.

- Under the following conditions, a layer of moisture can appear inside the device which can lead to malfunctions: a) if the device is moved from a cold to a warm area; b) after a cold room is heated; c) when the device is placed in a damp room. To avoid any moisture, seal the device in a plastic bag before moving it to another room, and wait one to two hours before you take it out of the bag.

Power Supply

- Use only the provided power adapter.
- Power off the device before removing the power supply from the socket.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from this device.
- Unplug this device if there are lightning storms or when unused for a long period of time.
- Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Before you make or change any connections, ensure that all devices are disconnected from the power outlet.
- Never touch the power cable or the power connection with wet hands.

Hearing Safety

- To avoid hearing damage, do not listen for extended periods at high volume. Set the volume at a safe level.

Cleaning

- Power off the device and remove it from the power supply before cleaning the surface.
- Use a soft, lint-free cloth. Never use liquid, gaseous, or easily flammable cleansers (like sprays, abrasives, polishes, and alcohol).

- Do not use any liquid cleaning agents to clean the lens as they may damage the protective coating on the lens.
- Wipe the surfaces gently. Be careful that you do not scratch the surfaces.
- Use lens cleaning paper to clean the lens of this projector.

Repairs

- Do not make any repairs to the device yourself. Only have your device repaired by an authorized service center.
- Improper maintenance can result in injuries or damage to the device.
- Refer all servicing to qualified service personnel.

Class II equipment symbol



This symbol indicates that the unit has a double insulation system.

Laser Safety

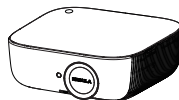


IEC 60825-1:2014. Complies with IEC 62471:2006 Risk Group 2.

Caution

- Possibly hazardous optical radiation emitted from this device.
- Do not stare at the operating beam. The bright light may hurt your eyes.

What's Included



Main unit



Remote control with batteries



Power cord



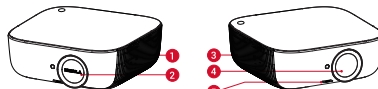
Power adapter



Manual

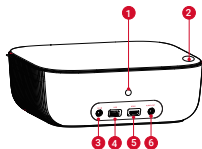
Overview

1. Front View



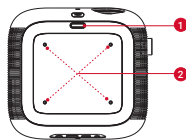
- | | |
|-------------------------------------|--------------------------|
| 1 Speaker / Air ventilation (inlet) | 4 Lens |
| 2 Lens cover | • Rotate to adjust focus |
| 3 Air ventilation (outlet) | 5 POWER button |

Rear View



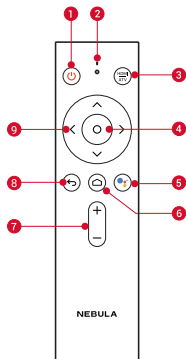
- 1 IR receiver
- 2 Power button
- 3 AC-IN
 - Connect to power supply
- 4 USB
 - Connect to a USB storage device
- 5 HDMI
 - Connect to a playback device with HDMI output
- 6 AUDIO OUT
 - Connect to headphone or external speaker

2. Bottom View



- 1 Flip stand slot
- 2 Mounting slot

Remote Control

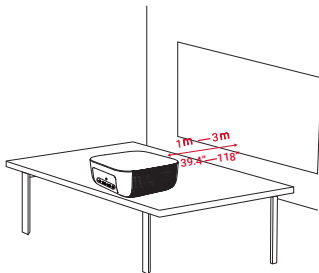


- 1
 - Power on / off
- 2 Microphone
- 3
 - Press to switch between ATV and HDMI interfaces
- 4
 - Press to confirm a selection or entry
 - Pause / resume play
- 5
 - Press to talk to the Google Assistant
- 6
 - Press to access the home menu
- 7
 - Volume up / down
- 8
 - Return to the previous menu
- 9
 - Navigation buttons
 - Navigate menus or adjust the selected contents

Getting Started

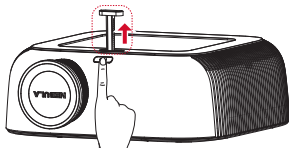
1. Placement

Place Nebula Prizm II Pro on a flat and stable surface, and squarely point it to face the projection surface. For best results, the projection surface should be white and flat. The distance between this projector and the projection surface must be a minimum of 39.4 inches (1 meter) and a maximum of 118 inches (3 meters).



Nebula Prizm II Pro comes with a flip stand. To use the flip stand:

- ① Press the **PUSH** button.
 - The flip stand pops out.



- ② After use, press the **PUSH** button again, and simultaneously press in the stand to push it back into the slot.

Note: You can also install your projector in the following ways: behind the projection surface, hanging from the ceiling in front of the projection surface, or hanging from the ceiling behind the projection surface. Make sure you select the correct **Projector Mode** option in the menu settings.

2. Select Projection Distance

The distance between Nebula Prizm II Pro and the projection surface determines the approximate size of the image. Use the table below to determine approximately how far to place Nebula Prizm II Pro from the projection surface based on the size of the projected image.

Screen size (length × width)	Projection distance (m)
50 inches (110 cm × 62 cm)	59.1 in (1.5 m)
55 inches (122 cm × 68 cm)	64.2 in (1.63 m)
80 inches (177 cm × 100 cm)	91.7 in (2.33 m)
100 inches (221 cm × 124 cm)	113.4 in (2.88 m)
120 inches (266 cm × 150 cm)	135 in (3.43 m)

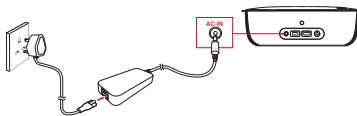
3. Prepare the Remote Control

The remote control comes with two AAA batteries.

- ① For first-time use, remove the battery insulation tab to power the remote control.
- ② To replace the batteries, slide to open the battery compartment, insert new batteries (matching the polarity (+/-) as indicated), and close the battery compartment.

4. Power On

- ① Connect this projector to the outlet by using the provided power cord and adapter.



- ② Remove the lens cover.
- ③ Press the power button on the front panel or  on the remote control once.
- ④ Turn this projector towards a flat, white projection surface.
- ⑤ To focus the image, rotate the lens.

5. Powering the Nebula Prizm II Pro with Android TV

Follow the on-screen instructions to complete the setup process.

Option 1. Quick setup

Android phone users can follow the instructions to quickly set up Android TV with your Android phone.

Option 2. Set up Nebula Prizm II Pro

- ① Skip the quick setup process.
- ② Connect Nebula Prizm II Pro to the network.

- ③ Sign in with your Google account.

Your Nebula Prizm II Pro will be powered by Android TV after finishing the setup process.

6. Settings

Go through the setup process when you turn on Nebula Prizm II Pro for the first time.

1. Network

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

- ① On the home menu, select **[Settings]** > **[Network & Internet]** and press .
- ② Follow the on-screen instructions to finish setting up the network connection.

2. Projector

Press  on the remote control to access the home menu, select **[Settings]** > **[Device Preferences]** > **[Projector Settings]**, and press .

[Color temperature]	[Norm] / [Cool] / [Warm]
[Projector mode]	[Front Projection]: The device is located in front of the projection surface.
	[Rear Projection]: The device is located behind the projection surface.
	[Inverted Front Projection]: The device is hanging from the ceiling in an upside down position. The image is rotated by 180 degrees.
	[Inverted Rear Projection]: 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.

[Vertical keystone correction]	Manual vertical keystone correction. The default value is 0.
[Horizontal keystone correction]	Manual horizontal keystone correction. The default value is 0.
[Quadrilateral keystone correction]	Manual quadrilateral keystone correction. The default value is 0.
[Optical engine update]	Press Enter to upgrade the firmware version.
[Update available]	Reset all the settings. Press Enter to restore to default settings.

3. App Manager

- On the home menu, select **[Settings]** > **[Apps]**, and press .
- Select an app and check the current version, open or force stop, check the storage used, clear data or cache, or enable or disable notifications and permissions.

4. TV

Press  on the remote control to access the home menu, select **[Settings]** > **[TV Settings]**, and press .

To modify TV settings:

- Select an on-screen option and press .
 - The sub-menu will display.
- Select the sub-menu items you'd like to modify.

5. Others

On the home menu, select **[Settings]** > **[Device Preferences]** to find more setting options.

[Date & time]	Manually set the date and time.
[HDMI]	Select to search for HDMI signal. Once an HDMI device is connected, it will automatically start HDMI playback.
[Language]	Select the on-screen language.
[Keyboard]	Select the keyboard language type you want to use.
[Sound]	Select the audio output source and sound format.
[Storage]	Check the device storage and removable storage.
[Home screen]	Press  to customize channels or apps, enable or disable video or audio previews.
[Google]	Press  to view app permissions, searchable apps, enable or disable SafeSearch filter, or block offensive words.
[Usage & diagnostics]	If this option is set to On, the diagnostic information will be automatically sent to Google.
[Accessibility]	Check captions, text-to-speech options, and enable or disable accessibility shortcuts.
[Security & restrictions]	Display warning message and restrict installation of harmful apps.
[Reset]	All data from your device's internal storage will be erased.

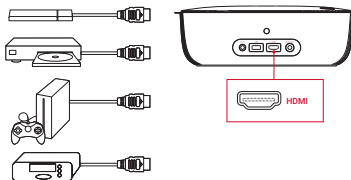
Using Nebula Prizm II Pro

1. Play from HDMI Playback Devices

Nebula Prizm II Pro can be connected to various devices that have an HDMI output port such as a TV box, TV stick, DVD player, set-top box (STB), gaming console, or other devices.

To play from devices that have an HDMI output port:

- ① Connect Nebula Prizm II Pro to an HDMI playback device with an HDMI cable (not included).
- It will automatically start HDMI playback once connected to an HDMI playback device.

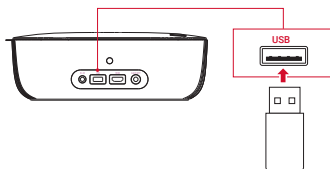


2. Play from a USB Drive

With Nebula Prizm II Pro, you can enjoy music, video, and pictures that are stored on a USB drive.

To play from a USB drive:

- ① Insert a USB drive into the USB port.
- The name of the USB drive will appear on screen.
- ② Select the USB drive and press .
- Nebula Prizm II Pro will display the video, music or photos in the Available folder.
- ③ Select the video you'd like to play.
- ④ Press  to stop playback.



3. Play Through External Sound Devices

This projector can also be connected to external sound output devices, including headphones and speakers; when connected to external speakers, the built-in speaker system is disabled.

To play sound through external sound devices:

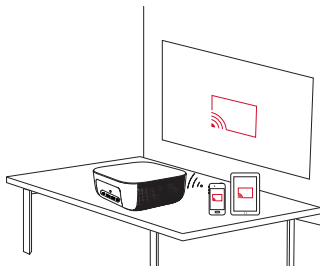
- ① Use a 3.5mm audio cable or an adapter (not provided) to connect your headphones or external speakers.
- ② Connect the other end of the cable to the **AUDIO OUT** port on this projector.
- You will hear audio from external devices.



Note: Before connecting headphones and putting them on, turn down the volume to avoid hurting your ears.

4. Use Google Cast

You can wirelessly cast photos, videos, and music from your phone right to your TV.



- ① Play a YouTube video clip on your phone and then tap the cast icon  on the video screen.
- ② Select the device "D2241" you want to cast to.
 - This projector will mirror the screen of the connected phone.

5. Charge Your Devices

To get apps from Google Play:

- ① Click .
 - ② Select "Get more from apps" to go to the Google Play store.
 - ③ Select an app and install.
- You can also type "+" to add selected apps to your favorite list.

6. Talk to the Google Assistant

With the Google Assistant app installed, you can talk to the Google Assistant to do certain tasks.

- ① Navigate through the home screen, and click the "microphone" icon on the screen.
- ② Press the mic button on your remote and talk to the Google Assistant, or click  to type and begin searching on the Google website.
 - You will be directed to the website you'd like to search.

7. Charge Your Devices

This projector can also be used to charge your USB devices.



Upgrading the Firmware

To upgrade the firmware:

- ① Download the firmware update software with a USB drive from the Nebula website: SeeNebula.com.
- ② Insert the USB drive into Nebula Prizm II Pro's USB port.
- ③ Press  to access the home menu, select **[Settings]** > **[Update Available]**.
- ④ Press **[Enter]**.
 - The firmware upgrade will automatically begin. Follow the on-screen instructions to complete the process.

Specifications



Specifications and design are subject to change without notice.

Power supply: AC 110~240V

Power consumption: < 125 W

Display technology: 5 inch LCD 1920 × 1080P

Light source: RGB LED

Projection image size: 40 - 120 inch

Resolution: 1920 × 1080P

Brightness: 200 ANSI / 1000 lumens

Contrast ratio: 1500 : 1

Throw ratio: 1.4

Throw distance: 1m to 3m

Speaker drivers: 2 × 5W

Remote control batteries: 2 AAA batteries

Recommended operating temperature: -10°C to 35°C / 14°F to 95°F

Relative humidity: 15% ~ 85% (non-condensing)

Storage temperature and humidity: -20°C/-4°F ~ 65°C / 149°F, < 90% humidity

Dimensions (W × H × D): 279 × 265 × 97mm / 11 × 10.4 × 3.8 inches

Weight: 2,420 g / 5.3 lbs

Troubleshooting

① Could not turn on Nebula Prizm II Pro with the remote control?

- Make sure Nebula Prizm II Pro is connected to a power supply.

② The remote control doesn't work?

- Make sure the battery is already installed in the remote control.
- Replace the batteries.

③ Blurred image?

- Rotate the lens until the image is clear.
- Press  on the remote control to access the home menu, select **[Settings]** > **[Device Preferences]** > **[Projector Settings]** > **[Vertical Keystone Correction]** / **[Horizontal Keystone Correction]** / **[Quadrilateral Keystone Correction]** to adjust the keystone value.

④ Reversed projection image?

- Press  to access the home menu, select **[Settings]** > **[Device Preferences]** > **[Projector Settings]** > **[Projector Mde]** and switch to a correct state.

⑤ Constantly rebooting?

- Go to **[Settings]** > **[Update Available]** to upgrade the firmware and reboot your projector again.

Notice



This product complies with the radio interference requirements of the European Community.

Declaration of Conformity

Hereby, Anker Innovations Limited declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. For the declaration of conformity, visit the Web site: www.seenebula.com.

Due to the used enclosure material, the product shall only be connected to a USB Interface of version 2.0 or higher. The connection to so called power USB is prohibited.

A statement regarding the AC/DC adapter as disconnect device is missing in the user manual.

The statement shall require a socket outlet that is installed near equipment and that shall be easily accessible.

The adapter shall be installed near the equipment and shall be easily accessible.

Do not use the Device in the environment at too high or too low temperature, never expose the Device under strong sunshine or too wet environment.

The suitable temperature for the product and accessories is 0°C-40°C.

When charging, please place the device in an environment that has a normal room temperature and good ventilation.

It is recommended to charge the device in an environment with a temperature that ranges from 5°C~25°C.

Please ensure to use only the charger offered by the manufacturer. Using unauthorized charger may cause danger and violate the authorization of the projector and the guarantee article.



This charger is for indoor use only

The charger type is NSA120EC-19063200, output voltage/current is 19Vdc/6.32A. The plug considered as disconnect device of adapter.

RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of d=20 cm between the device and the human body. To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and human body.

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

Wifi Operating Frequency Range: 2412~2472MHz (2.4G); 5150~5250MHz, 5725~5850 MHz (5G)

Wifi Max Output Power: ??? dBm(2.4G); ??? dBm(5G)

BT Operating Frequency Range: 2402~2480 MHz; BT Max Output Power: 8 dBm
5150~5250 MHz can be used indoor only.

The following importer is the responsible party (contact for EU matters only)

Importer: Anker Technology (UK) Ltd

Importer Address: Suite B, Fairgate House, 205 Kings Road, Tyseley, Birmingham, B11 2AA, United Kingdom

This product is designed and manufactured with high quality materials and components, which can be recycled and reused.



This symbol means the product must not be discarded as household waste, and should be delivered to an appropriate collection facility for recycling. Proper disposal and recycling helps protect natural resources, human health and the environment. For more information on disposal and recycling of this product, contact your local municipality, disposal service, or the shop where you bought this product.

FCC Notice

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this 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: (1) Reorient or relocate the receiving antenna. (2) Increase the separation between the equipment and receiver. (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. (4) Consult the dealer or an experienced radio/TV technician for help.

FCC Radio Frequency Exposure Statement

The device has been evaluated to meet general RF exposure requirements. The device can be used in fixed/mobile exposure condition. The min separation distance is 20cm.

Notice: Shielded cables

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

The following importer is the responsible party.

Company Name: Fantasia Trading LLC

Address: 9155 Archibald Avenue, Suite 202, Rancho Cucamonga, CA 91730, USA

Telephone: 1-909-484-1530

Trademarks



HDMI, and HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC in the United States and other countries.

Warranty

30-Day Money-Back Guarantee for Any Reason

You may return your undamaged product and packaging within 30 days of purchase to receive a FULL REFUND for any reason. If the reason for return isn't quality-related, the customer must pay for the return shipping.

12-Month Warranty for Quality-Related Issues

Nebula's products are warranted to be free from material and workmanship defects for 12 months from the date of purchase. Within this period, Nebula will provide a replacement and cover any return shipping costs for products that fail in normal use.

Note: Any provided shipping labels must be used within 20 days from the date they're issued by Nebula Support.

Please note that your rights under applicable law governing the sale of consumer goods remain unaffected by the warranties given in this Limited Warranty.