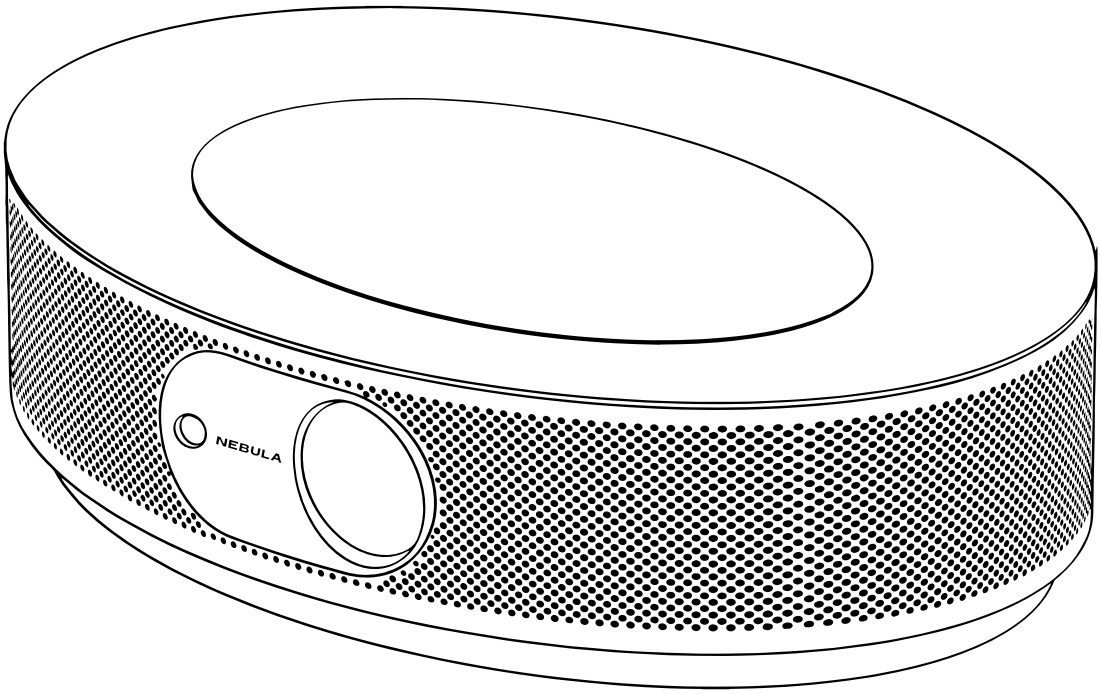
NEBULA
by Anker



User Manual

Nebula Cosmos

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Safety Instructions

Read all instructions before you use this device. Do not make any changes or create 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. Objects filled with liquids, such as vases, should not be placed on this device.
- Do not place this device on soft surfaces such as tablecloths or carpets, otherwise the device could be a fire hazard.
- Do not place this 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 this device in a confined space. Always leave enough space around this device for ventilation.
- Protect this device from overexposure to direct sunlight, heat, large temperature fluctuations and moisture. Avoid extreme temperatures. The suitable operations and storage temperature for this device and its accessories is 32°F to 95°F/ 0°C to 35°C.
- When this device is running for a long period of time, the surface may become hot. Shut it down immediately and unplug the charger. Resume operation after this device has cooled down.
- Always handle this device with care. Avoid touching the lens. Do not allow children to handle the device without supervision.
- Never place heavy or sharp objects on this device.
- To avoid electric shock, do not disassemble.
- Use attachments or accessories specified by the manufacturer only.
- Avoid extreme vibrations as they may damage the internal components.

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.

- 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 connector with wet hands.

Hearing Safety

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

Charging

- The charger type is an NSA120EC-19063200 with output voltage / current of DC 19V/6.32A. The charger should be installed near this product and should be easily accessible.
- This charger is for indoor use only.
- When charging, place this device in an environment that has a normal room temperature (ranges from 5°C to 25°C/ 41°F to 77°F recommended) and good ventilation.
- Due to the enclosure material used, this device must only be connected to a USB interface of version 2.0 or higher.

Cleaning

- Use a soft, lint-free cloth. Never use liquid, gaseous or easily flammable cleansers to clean.
- Do not use any liquid cleaning agents to clean the lens to avoid damaging the coating film on the lens.
- Use lens cleaning paper to clean the lens.

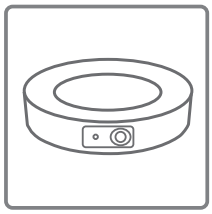
Repairs

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

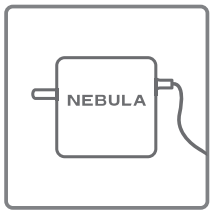
Caution

- Possibly hazardous optical radiation emitted from this product, do not stare at operating lamp. Maybe harmful to the eyes.

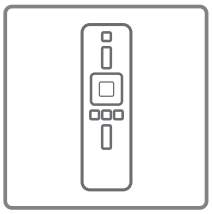
What's Included



Nebula Cosmos

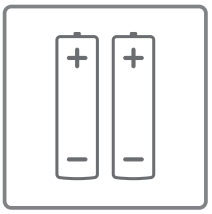


Adapter



Remote Control

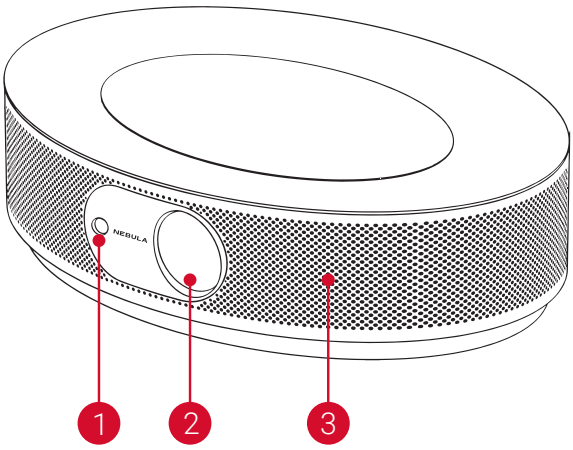
Quick Start Guide



2 × AAA Batteries

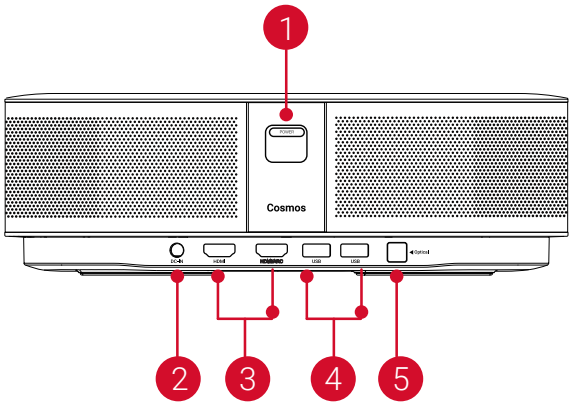
Overview

1. Front View



1. Camera for Autofocus
2. Lens
3. Speaker

2. Rear View



1. Power Button
   - Press to power on
   - Press and hold to power off
2. DC Input
3. HDMI Input Port
   - Connect to a playback device
4. USB-A Port
   - Connect to a USB flash drive
5. Optical Audio Port
   - Connect to an audio device using an optical cable

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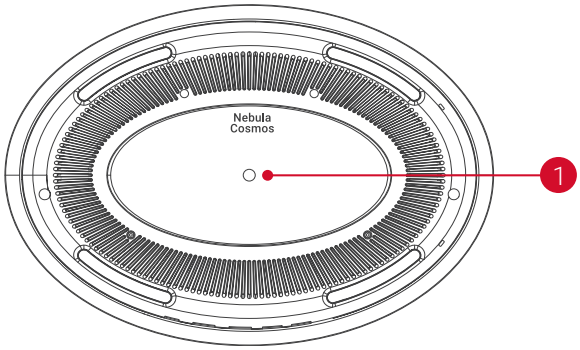
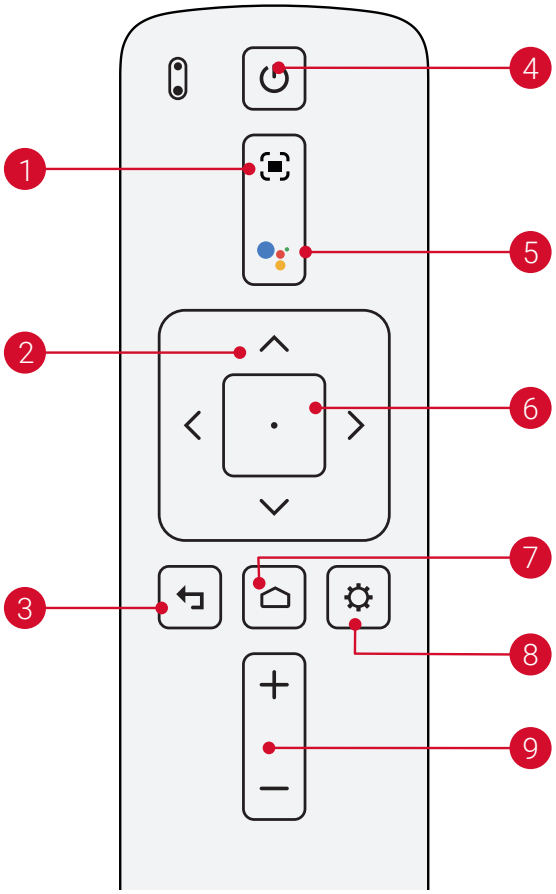
3. Bottom View



1 1/4" Tripod Socket

4. Remote Control



1. Adjust Focus
2. Navigation
3. Back
4. Power On / Off
5. Press to activate Google Assistant
6. Confirm the selected content
7. Home
8. System Settings
9. Volume Up / Down

Remote Control: Nebula RC
Model: D0413

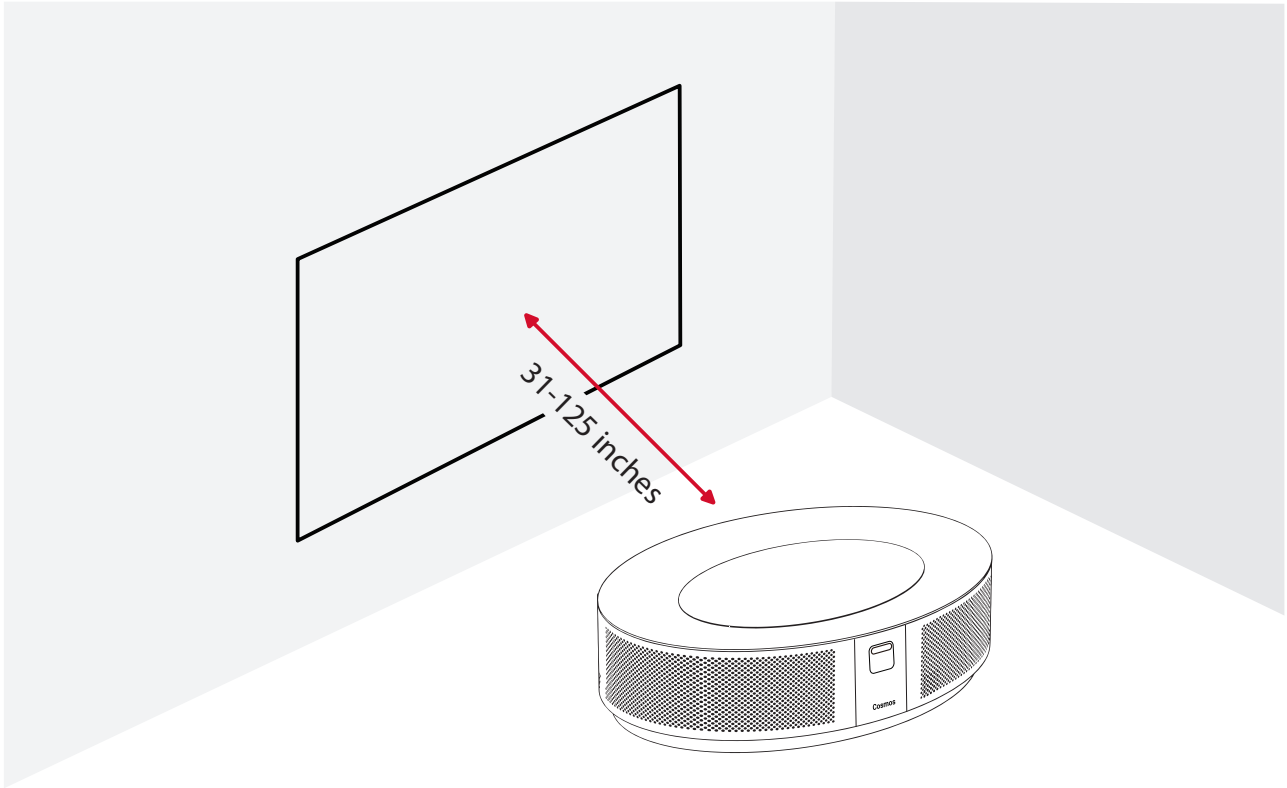
5. LED Indicator

LED Status	Description
Solid Red	Operating in projector mode

Getting Started

1. Placement

Place this device on a stable, flat 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 device and the projection surface must be a minimum of 31 inches (0.8 meters) and a maximum of 125 inches (3.18 meters) to get a projection image from 30 to 120 inches.

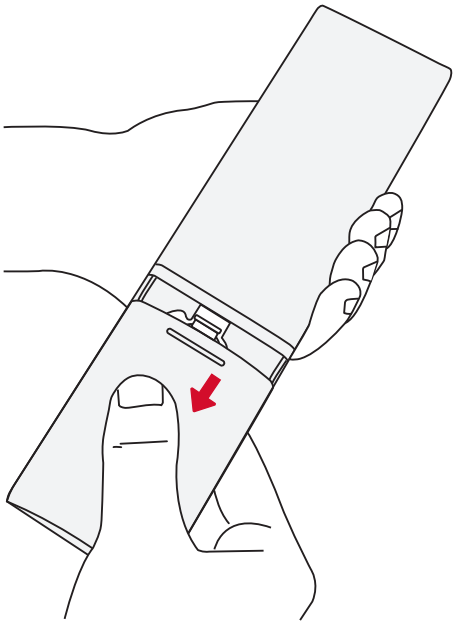


- It is unnecessary to tilt it towards the projection surface. You can correct the projection image with the built-in keystone correction.
- The distance between the device and the projection surface determines the projection image size. For the best result, set the projector between 63 and 104 inches away.
- You can also mount your projector on the ceiling.

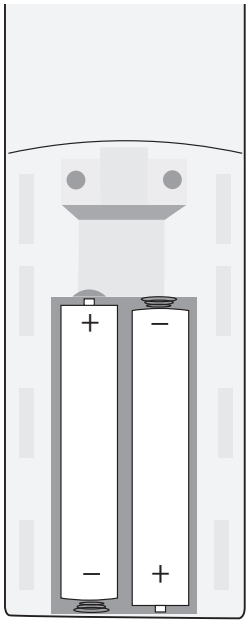
2. Prepare the Remote Control

The remote control comes with two AAA batteries.

① For first-time use, slide to open the battery compartment, and install two AAA batteries.

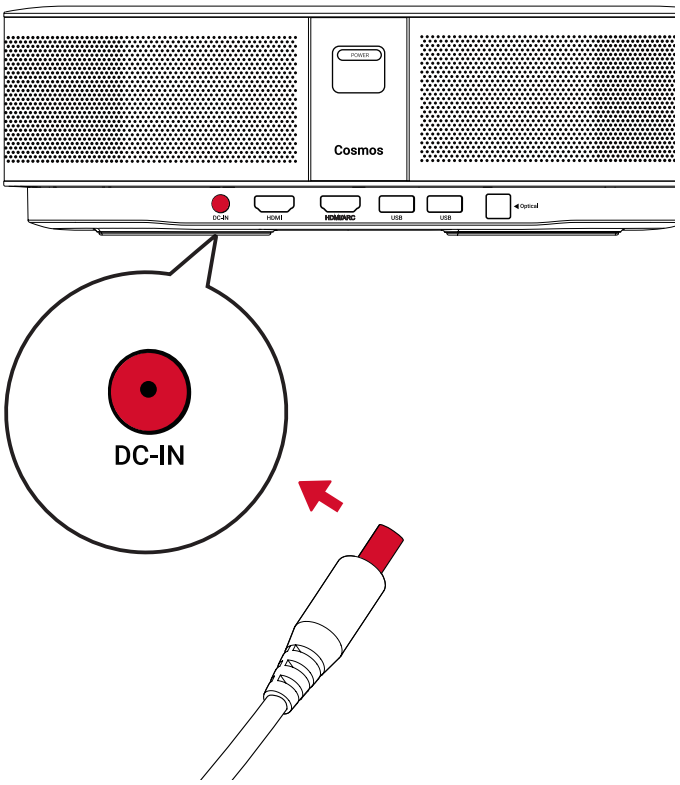


② To replace the battery, unlock and open the battery compartment, insert a new battery matching the polarity (+/-) as indicated, and then close and lock the battery compartment.

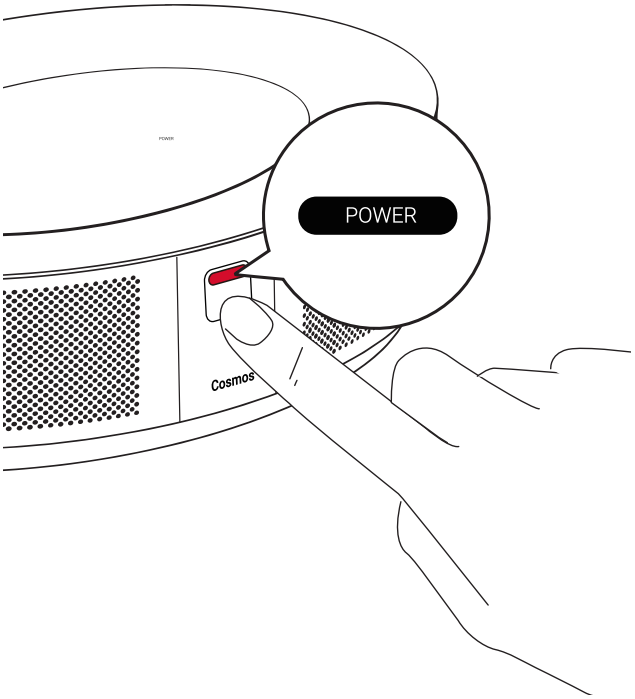


3. Get Started

① Connect Nebula Cosmos to a power outlet using the provided power adapter.



② Press POWER to turn on the projector.



③ Angle the device towards a suitable projection surface or wall. The built-in autofocus automatically adjusts the protector's image focus. Or you can press on the remote control to manually adjust the focus.

④ When using for the first time, follow the on-screen instructions to complete the basic set-up.

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Nebula Connect App

To easily control this device, we recommend downloading the Nebula Connect app. With this app, you can operate your mouse using your phone screen.

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

Download on the App Store

GET IT ON Google Play

② Enable Bluetooth on your smartphone and select **[Nebula Cosmos]** as the device to be connected.

③ Open the **Nebula Connect** app and follow the on-screen instructions to complete the connection setup.

Powering Nebula Cosmos 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 Cosmos

For iOS users, follow the instructions to complete the process.

① Skip the quick setup process.
② Connect Nebula Cosmos to the network.
③ Sign in with your Google account.
Your Nebula Cosmos will be powered by Android TV™ after finishing the setup process.

Settings

Go through the setup process when you turn on Nebula Cosmos for the first time.

1. Network

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

① On the home page, select ⚙ > **[Network & Internet]** and press ⊡ .
② Follow the on-screen instructions to complete the network connection.

2. Audio

Audio format can be changed via the Audio Settings.

① On the home page, select ⚙ > **[Audio Settings]** and and press ⊡ .

Auto change digital audio format	Enable or disable automatic digital audio format change between PCM and RAW

3. HDMI

Choose HDMI 1/2 as the input source. You can also change CEC settings under this option.

① On the home page, select ⚙ > **[HDMI]** and and press ⊡ .

CEC Settings	Press Enter to change CEC settings

4. Projector

① On the home page, select ⚙ > **[Projector Settings]** and press ⊡ .

[Brightness]	Adjust the brightness from 0 to 100%
[Color Temperature]	**[Normal] / [Cool] / [Warm]**
[Wall Color]	**[White] / [Red] / [Orange] / [Blue] / [Green] / [Cyan] / [Yellow] / [Purple]**
[Keystone Correction]	Enable / disable keystone correction.
[Zoom]	[70-100%]
[Autofocus Correction]	Press **Enter** to run autofocus correction.

[Projector Mode]	**[Auto]:** Automatically detects whether the projector is inverted. Automatically switch between these options.
	[Front Projection]: The projector is located in front of the projection surface.
	[Rear Projection]: The projector is located behind the projection surface.
	[Inverted Front Projection]: The projector is hanging from the ceiling in an upside down position. The image is rotated by 180 degrees.
	[Inverted Rear Projection]: The projector is hanging from the ceiling in an upside down position behind the projection surface. The image is rotated by 180 degrees and horizontally mirrored.

5. Apps

① On the home page, select ⚙ > **[Apps]**, and press ⊡ .

② 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.

6. Others

On the home page, select ⚙ to find more setting options.

[Device Preferences]	
[About]	Check the device information and firmware version.
[Date & time]	Manually set the date and time.
[Language]	Select the on-screen language.
[Keyboard]	Select the keyboard language type.
[Sound]	Select the audio output source and sound format.
[Storage]	Check the device storage and removable storage.
[Reset]	All data from your device's internal storage will be erased.
[Date & Time]	
[Automatic date & time]	Enable or disable automatic date and time.
[Set date]	Manually set date.
[Set time]	Manually set time.
[Set time zone]	Set a time zone.
[Use 24-hour format]	Enable or disable 24-hour format.

Using Nebula Cosmos

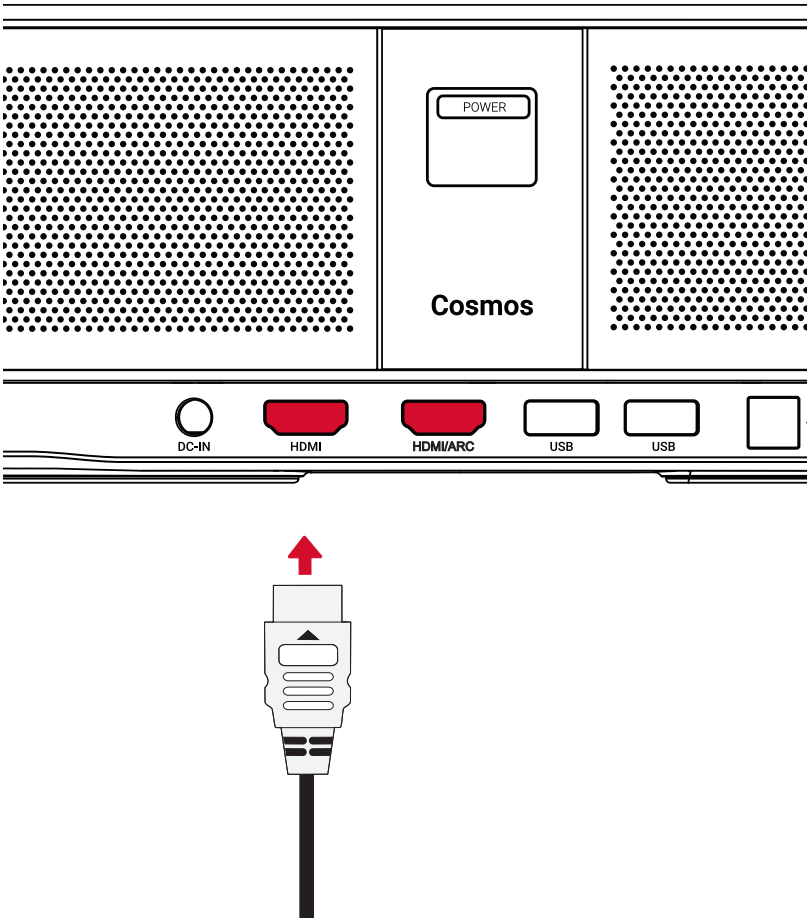
1. Play from HDMI Playback Devices

Nebula Cosmos can be connected to various HDMI playback devices such as a TV box, TV stick, DVD player, set-top box (STB), gaming consoles or other devices. Two HDMI devices can be connected to the projector simultaneously to stream video at 4K@60 fps.

To play from HDMI playback devices:

① Connect Nebula Cosmos to an HDMI playback device with an HDMI cable (not included).

- It will automatically start HDMI playback once connected to an HDMI playback device.



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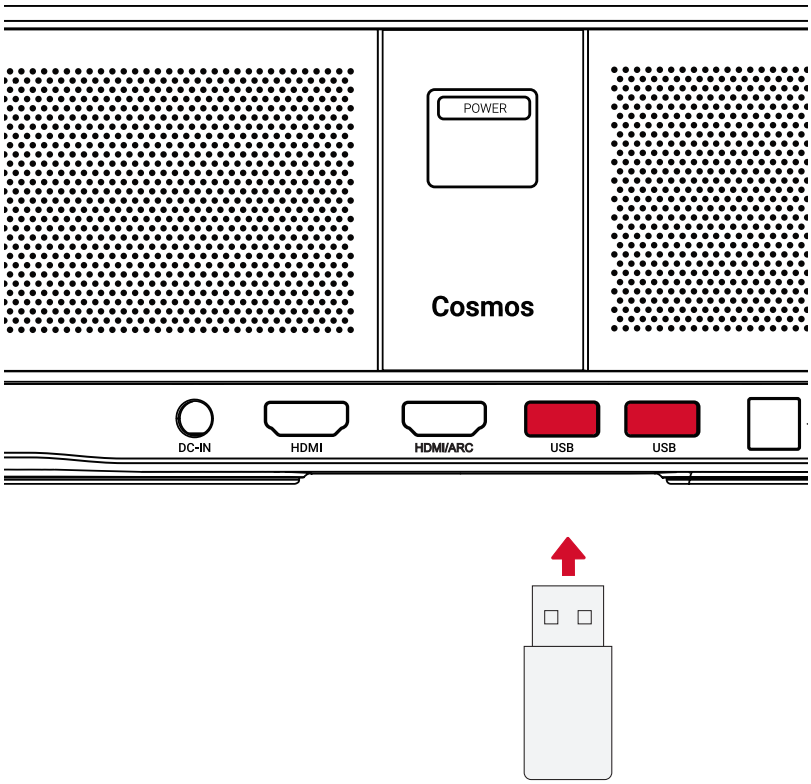
2. Play from a USB Drive

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



To play from a USB drive:

① Download the Nebula File Explorer from Google Play.

② Insert a USB drive into the USB port.

- The USB folder will appear on the Nebula File Explorer.

③ Select videos or photos from the USB drive that you want to play, and press ▢.

④ Press ▢ to stop playback.

3. Connect Bluetooth Accessories

You can connect Bluetooth devices to Nebula Cosmos.

① On the home page, select ⚙ > **[Remotes & Accessories]** and press ▢ .

② Select **Add accessories**.

- This projector will begin searching for accessories.

③ Pair your projector with the device to be connected.

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

Note: Before pairing your Bluetooth devices, make sure the remote control and your projector are in pairing mode.

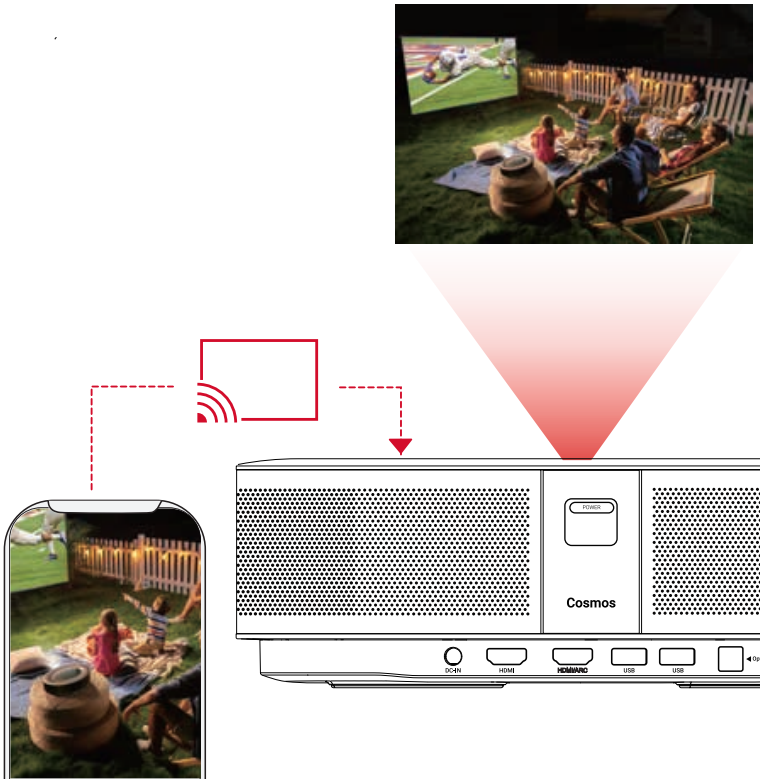
4. Use Chromecast Built-in

You can wirelessly cast photos, videos, and music from your phone or computer right to your Nebula Cosmos.

① Play a video clip on your phone and then tap the cast icon on the video screen.

② Select the device “D2140” you want to cast to.

- This projector will mirror the screen of the connected phone or computer.



- Make sure Nebula Cosmos and your phone are connected to the same wireless network.
- Certain content may be unavailable to be casted due to copyright restrictions. In this case, you can stream the content via the same app installed in your Nebula Cosmos.

5. Enjoy Google Features

Nebula Cosmos also supports Google features. Once connected to a wireless network, you can access online services, enjoy movies, music and pictures, and browse online. Aside from the pre-installed apps, you can also install any other apps from Google Play, and talk to the Google Assistant to do certain tasks.

To talk to the Google Assistant:

① Make sure you’ve followed the steps in the section “Connect Bluetooth Accessories” to connect your remote control to Nebula Cosmos. Once connected, the LED indicator on the remote control turns solid red.

② Press on the remote control to talk to the Google Assistant.

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Specifications

Specifications and design are subject to change without notice.

Power supply: 19V ⎓ 6.32A
Power consumption: < 120W
Standby power consumption: < 0.5W
Display technology: DLP FHD1920x1080P
Light source: RGB LED
Projection image size: 30-120 inch
Resolution: 1920 × 1080p
Contrast ratio: 1000:1
Throw ratio: 1.2
Throw distance: 0.8m to 3.18m
CPU: Quad-core ARM Cortex-A55
OS: Android TV 9.0
RAM: 2GB DDR
ROM: 8GB eMMC
Speaker drivers: 10W × 2
Wi-Fi: IEEE802.11a/b/g/n/ac Dual Frequency 2.4G/5G
Bluetooth version: V4.2
USB file system: FAT32 / NTFS / exFAT
Recommended ambient: 41°F to 95°F / 5°C to 35°C
Relative humidity: 15% ~ 85% (non-condensing)
Storage temperature and humidity: < 149°F / 65°C, < 90% humidity
Dimensions (H*D): 290 × 198 × 92 mm / 11.4 × 7.8 × 3.6 inch
Weight: 2 kg / 70.5 oz

Troubleshooting

① Fail to turn on the projector with the remote control?

- Press (POWER) on the projector to turn it on.
- When powered off, you cannot use the remote control to turn it on.

② The remote control doesn't work?

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

③ Blurred image?

- Press to manually adjust the focus.

④ Cannot connect to a Wi-Fi network?

- Refresh the list of available networks and retry.
- Reboot the wireless router or the device and retry.

⑤ How do I update the firmware?

- When a new version is detected you will be asked to reboot and update.

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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

RF exposure information (for D2140): 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 requirements, use products that maintain a 20cm distance between the device and human body.

Wifi Operating Frequency Range (for D2140):2412~2472 MHz(2.4G); 5150~5250 MHz, 5725~5850 MHz (5G)

Wifi Max Output Power (for D2140) :19.35 dBm(ERIP for 2.4G);22.09 dBm(ERIP for 5G)

BT Operating Frequency Range (for D2140) : 2402~2480 MHz; BT Max Output Power (for D2140):9.2 dB(ERIP)

5150~5250 MHz can be used indoors only.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK

RF warning statement for D0413:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Bluetooth Operating Frequency Range(for D0413) 2402~2480MHz; Bluetooth Max Output Power(for D0413):4.346dBm(EIRP)

Anker Innovations Deutschland GmbH I Georg-Muche-Strasse 3-5, 80807 Munich, Germany
Anker Technology (UK) Limited I GNR8, 49 Clarendon Road, Watford, Hertfordshire, WD17 1HP, United Kingdom

This product complies with the radio interference requirements of the United Kingdom.

Declaration of Conformity

Hereby, Anker Innovations Limited declares that this device is in compliance with Radio Equipment Regulations 2017(SI 2017/1206). The full text of the UK declaration of conformity is available at the following internet address:
https://uk.seenebula.com/.

Your 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

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 Radiation 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: 5350 Ontario Mills Pkwy, Suite 100, Ontario, CA 91764
Telephone:1-800-988-7973

모델명 : D2140
인증번호 : R-C-AII-D2140
제품명 : 특정소출력 무선기기 (무선데이터통신시스템용 무선기기)
제조자및제조국가 : Anker Innovations Limited
제조국 : 중국 CHINA
제조년월 : 2020.05
해당 무선설비는 운용 중 전파혼신 가능성이 있음 . 해당 무선설비는 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할수 없음 .

모델명 : D0413
인증번호 : R-C-AII-D0413
제품명 : 특정소출력 무선기기 (무선데이터통신시스템용 무선기기)
제조자및제조국가 : Anker Innovations Limited
제조국 : 중국 CHINA
제조년월 : 2020.05
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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.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. Other trademarks and trade names are those of their respective owners.

Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio,Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.

Android, Android TV, and Google Assistant

Google, Android, Android TV, Chromecast and other related marks and logos are trademarks of Google LLC.

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 warrantied 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.

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