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Mars II

Owner's Manual

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Model: D2322

51005001007 V01

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Safety Instructions

English

Read and understand all instructions before you use this device. Do not make any changes or 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 on soft surfaces such as tablecloths or carpets as doing so could be a fire-hazard.
- 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 for one to two hours before you take it out of the bag.

English

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 power 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 connector 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.

Battery

- Do not replace the built-in battery yourself. Contact an authorized service center to replace it.
- The remote control contains coin type batteries which can be swallowed. Keep the batteries out of reach of children.
- Risk of explosion! Keep batteries away from heat, direct sunlight, or fire. Never discard batteries in fire.
- When the remote control is not used for a long period of time, remove the batteries.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Batteries contain chemical substances, they should be disposed of properly.
- Charge the device regularly. Do not store the device with a completely discharged battery.

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 over the surfaces gently. Be careful that you do not scratch the surfaces.
- Use lens cleaning paper to clean the lens of the 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.

Class II equipment symbol

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

Laser Safety

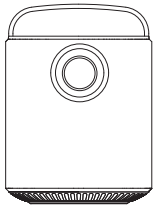
IEC 60825-1:2014. Complies with IEC 62471:2006 Risk Group 2.

Caution:

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

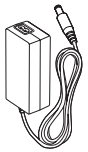
English

What's Included



Main unit

Remote control with batteries



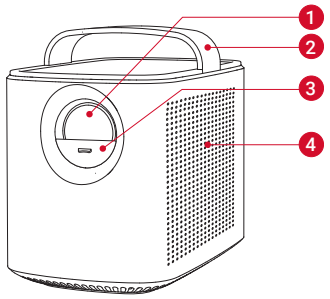
Power Adapter

Power cord

Manual

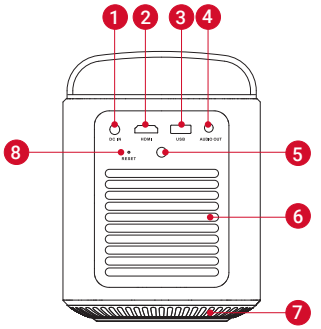
Overview

1. Front View



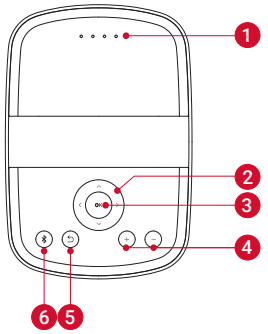
1. Lens
2. Handle
3. Lens cover
   - Slide down to power on and automatically adjust focus
   - Slide up to power off
4. Loudspeaker

2. Rear View



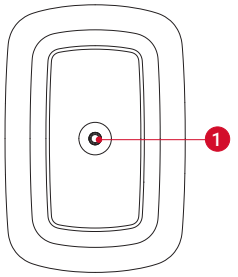
1. DC IN
   - Connect to power supply
2. HDMI
   - Connect to a playback device with HDMI output
3. USB
   - Connect to a USB storage device
   - Charge a USB device as a power bank
4. AUDIO OUT
   - Connect to a headphone or an external speaker
5. Infrared Receiver
6. Air ventilation (outlet)
7. Air ventilation (inlet)
8. RESET

3. Top View



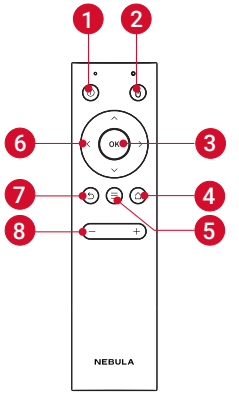
1. LED indicators
   - Power level
2. ∧ / ∨ / < / > Navigation buttons
   - Navigate menus or adjust the selected contents
3. OK
   - Press to confirm a selection or entry
   - Pause / resume play
4. \+ / —
   - Volume up / down
5. ⮌
   - Return to the previous menu
6. ᛒ
   - Press to enter/exit Bluetooth mode
   - In standby mode, press to wake up the projector

4. Bottom View



1. Tripod socket

5. Remote Control

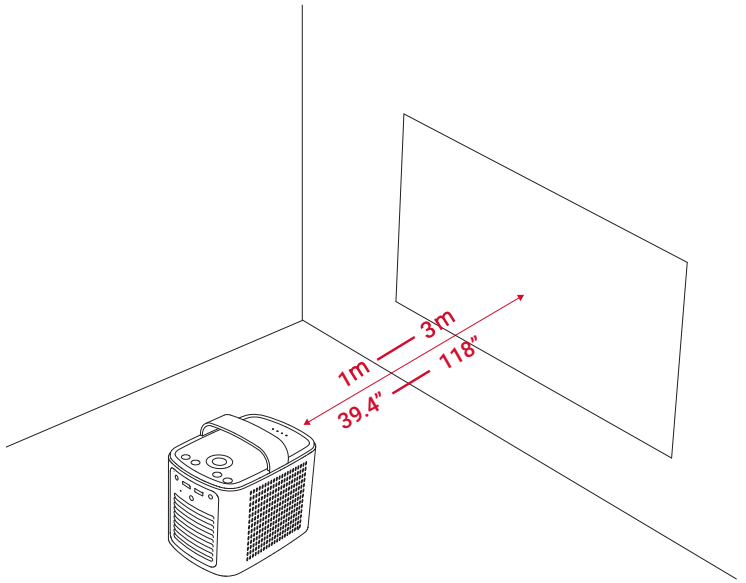


1. ⏻
   - Power on / off / switch to standby
2.
   - Press to enter / exit mouse key mode.
3. OK
   - Press to confirm a selection or entry
   - Pause / resume during play
4. ⌂
   - Press to access the home menu
5. ☰
   - Access more options during play (availability of options are dependent on the source input).
   - Press and hold to adjust focus
6. ∧ / ∨ / < / > Navigation buttons
   - Navigate menus or adjust the selected contents
7. ⮌
   - Return to a previous menu
8. — / +
   - Volume down / up

Getting Started

1. Placement

Place Mars II on a stable, flat foundation in front of the projection surface. For the best results, the projection surface should be white and flat. The distance between the projector and the projection surface must be a minimum of 1 meter (39.4 inches) and a maximum of 3 meters (118 inches).



- It is unnecessary to tilt the projector 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 image size.

2. Prepare the Remote Control

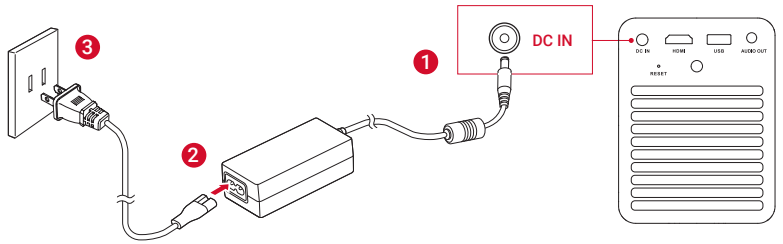
① For first time use, remove the plastic battery insulation tab to activate the remote control batteries.

② To replace the batteries, slide off the battery compartment backplate to open the battery compartment, insert new batteries (matching the polarity (+/-) indicated), and close the battery compartment.

3. Get Started

① Fully charge the built-in battery before using for the first time.

② Connect the projector to the outlet by using the provided power adapter and power cord, the built-in battery will be charged and the LED indicators will light on.



③ Slide down the lens cover, and the projector will automatically turn on. You can also press ⏻ on the remote control to turn it on.

④ Angle the projector towards a suitable projection surface or wall.

⑤ To focus the image, slightly move the projector to engage auto-focus or press and hold the ☰ on the remote control to manually adjust.

For first time use, follow the on-screen instructions to complete the basic set-up.

Nebula App

To easily control this projector, we recommend you to download the dedicated Nebula app, Nebula Connect. Using this app, you can use your smartphone's keyboard to input text and use the screen as a mouse.

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

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

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

Settings

Go through the set-up process main settings when you turn 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 menu, select **[Settings]** > **[Network]** and press OK..

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

2. Bluetooth

Bluetooth Speaker Mode

You can use this projector as a standalone Bluetooth speaker.

① Press ✱ on the projector to switch to Bluetooth speaker mode.

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

Projector Mode

You can connect Bluetooth headphones or a speaker to Mars II while it's in projector mode.

① On the home menu, select **[Settings]** > **[Bluetooth]** and press OK.

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

3. Projector

On the home menu, select **[Settings]** > **[Projector]**, and press OK.

[Image Mode]	**[Auto] / [Standard Mode] / [Battery Mode]**
[Color Temperature]	**[Normal] / [Cool] / [Warm]**
[Auto Keystone Correction]	Enable / disable auto keystone correction.
[Keystone Correction]	Manually make keystone correction. The default value is 0.
[Auto Focus]	Enable / disable auto focus.
[Projector Mode]	[Front]: The device is located in front of the projection surface.
	[Rear]: The device is located behind 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 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.

4. App Manager

① On the home menu, select **[Settings]** > **[App Manager]** and press OK.

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

When more than 3 apps are installed, you can select **[All]** at the bottom line of the home page to enter the **[Apps]** page. Select an app and press ☰ in the remote control, and then you can select **[Move To Home]** or **[Uninstall]**.

5. Others

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

[General]	
[Language]	Select an on-screen display language.
[Keypad Tone]	Turn the keypad tone on/off.
[Automatic Sleep Interval]	5 min / 15 min / 30 min
[Background]	Select a background.
[Clear Cache]	Clear all the cached data stored on the projector.
[Date&Time]	
[Automatic Date&Time]	Enable / disable automatic date and time.
[Date]	Manually set date.
[Time]	Manually set time.
[Select time zone]	Select time zone.
[Use 24-hour format]	Select 24-hour format or 12-hour format.
[Upgrade]	
[Check Update]	Check if it is the latest version. Follow the on-screen instructions to update the software version.
[About]	
[Recovery]	All data on the built-in storage will be erased.

English

English

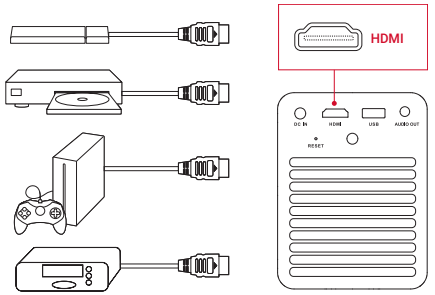
Using the Nebula Mars II

1. Connect to HDMI Playback Devices

This device supports connections with various HDMI playback devices such as TV stick, TV box, DVD player, set-top box (STB), game console or other devices.

① Connect this device to an HDMI playback device with an HDMI cable (not provided).

② On the home menu, select [HDMI] , and press **OK**. (*It will automatically start the HDMI playback when connected to an HDMI playback device for the first time.)

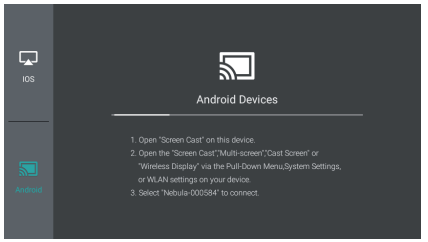


2. Screen Cast

You can wirelessly cast the screen of your smartphone or tablet onto the projection surface.

For iOS devices:

For Android devices:



Certain content may be unavailable for screen casting due to copyright restrictions. In this case, you can play the content directly by using the same app installed on your Nebula Mars II.

3. Select an App

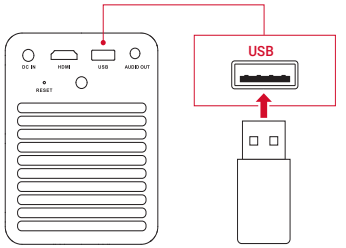
Once connected to a wireless network, you can access online services, enjoy movies, music and pictures, and browse the internet. Apart from the apps installed by default, you can also install any other apps from the Nebula Store or from a USB flash drive.

- On the home menu, select an Internet service from “Apps” or “Nebula Store”.
- Press **OK** to confirm.

4. Connect to a USB Storage Device

With this projector, you can enjoy music, video, and pictures, or install apps that are stored on a USB 2.0 storage device by using the OTG cable (not provided).

① On the home menu, select **[File Manager]** and press **OK**.
② Select a file, then press **OK**.



Specifications

Specifications are subject to change without notice.

Power supply: DC 19V ⎓ 3A

Power consumption: < 57W

Standby power consumption: < 0.5W

Display technology: 0.3 inch 1280*720p DLP

Light source: RGB LED

Projection image size: 30 - 150 inch

Resolution: 1280 x 720 pixels

Brightness: 300 ANSI Lumens/ 1,500 lm

Contrast ratio: 1000:1

Projection ratio: 1.2

Speaker drivers: 10 w x 2

Bluetooth: V4.0

Built-in battery type: Li-Polymer

Capacity: 12500 mAh 3.8V

Video play duration: 4 hours

Music play duration: 30 hours

Remote control batteries: CR2032 x 2

Operating temperature: 0°C to 35°C / 32°F to 95 °F

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

Storage temperature and humidity: < 65°C / 149°F, < 90% humidity

Dimension (W*H*D): 122 × 138 × 178 mm / 4.8 × 5.4 × 7 in

Weight: 1,483 g / 52.3 oz

Troubleshooting

① Fail to power on by the remote control?

- Make sure that the device is connected to the power supply.
- Slide down the lens cover.

② Fail to power on by sliding down the lens cover?

- Make sure that the device is connected to the power supply.
- Slide up the lens cover and wait for 10 seconds, then try again.

③ The remote control doesn't work?

- Remove the battery insulation tab to activate the remote control batteries.
- Replace new batteries.

④ Blurred image?

- You can either slightly move the projector or press the navigation buttons to focus the image.

⑤ Reversed projection image?

- On the home menu, select **[Settings] > [Projector mode]** and switch to the correct state.

English

Notice

Declaration of Conformity

This product complies with the radio interference requirements of the European Community. Hereby, Anker Technology Co., 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/certification.

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 to 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 projecter and the guarantee article.
This charger is for indoor use only
The charger type is NSA60ED-190300, output voltage/current is 19Vdc/3A. 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

BT Maximum output power: 8 dBm; BT Frequency band: 2402~2480 MHz;

Wi-Fi Max Output Power: 19 dBm (2.4G); 14 dBm (5G);

Wi-Fi Frequency Band: 2412~2472 MHz (2.4G); 5150~5250 MHz, 5725~5850 MHz (5G).

5150~5250 MHz can be used indoor 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

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. Follow local rules and never dispose of the product and rechargeable batteries with normal household waste. Correct disposal of old products and rechargeable batteries helps prevent negative consequences for the environment and human health.

FCC notice

This device complies with the FCC rules, Part 15. 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 partly 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 instruction manual, 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:

• Reorient or relocate the receiving antenna.
• Increase the separation between equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Notice: Shielded cables

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

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.

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.