

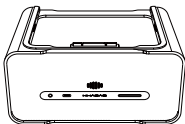
KHADAS

Mind Graphics

User Guide

Get to Know Your Graphics

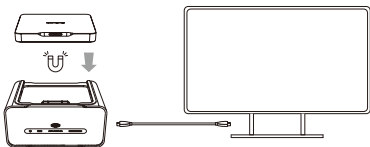
Welcome to your Mind Graphics eGPU Module, hereafter referred to as "Graphics".



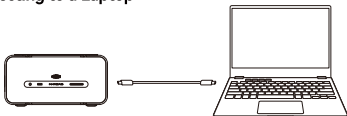
Graphics is powered by the NVIDIA GeForce® RTX™ 4060 Ti desktop graphics card. With the innovative Mind Link interface, Graphics can be magnetically coupled to the Khadas Mind Portable Workstation (hereafter referred to as "Mind") in a snap. This connection can dramatically boost your Mind's overall performance, delivering stunning visuals and higher processing speed.

Featuring a USB-C interface, Graphics can also be connected to laptops or desktops that support Thunderbolt 4 or 3, supercharging your computer's performance.

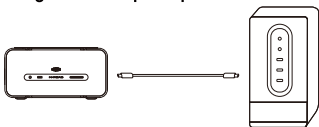
• Connecting to Mind



• Connecting to a Laptop



• Connecting to a Desktop Computer

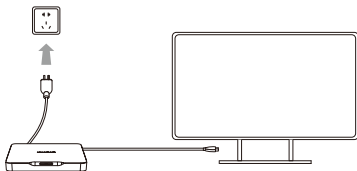


Set Up Your Graphics

01 Update Mind's Software

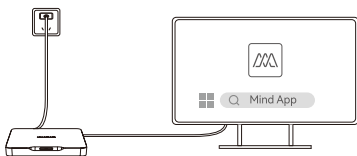
Before using Mind Graphics, update the software on your Mind to the latest versions. This includes the Mind App, BIOS, and EC.

1. Prepare a HDMI cable and a monitor. Connect your Mind to a power source, connect the monitor to Mind, and then power on Mind.

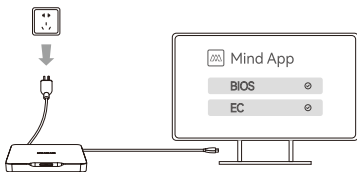


2. To run the Mind App, type "Mind" in the search box in Windows. Update the app to its latest version.

Alternatively, you can visit the Khadas official website to download the latest version of the Mind App.



3. Using the Mind App, update the BIOS and EC. After the update is completed, unplug the power supply and HDMI cable from Mind.

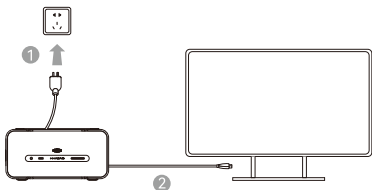


To make the most out of your Graphics, always keep the Mind App running when using it.

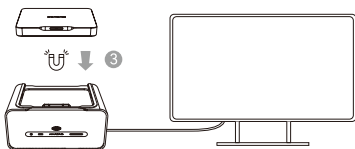
* To learn more about the Khadas products supported by Graphics and to get up-to-date Mind App software, please go to the Khadas official website at www.khadas.com/mind/support.

02 Connect Graphics to Mind

1. Connect Graphics to a power source ranging between 100V–240V with the provided AC power cord. It will automatically power on, and its white indicator light will begin to breathe slowly.
2. Connect your monitor to the HDMI or DisplayPort port on Graphics.



3. Place your Mind into Graphics, and make sure the Mind Link interface is aligned.



4. Press the power button on Mind to power it on. The indicator light on Graphics will be white and always on, indicating that the connection is established.

You've now completed the initial setup of your Graphics. It's time to sit back and enjoy the superior graphics performance brought to you by the RTX 4060 Ti graphics card.

Notes on the Indicator Light

Color	State	
White - always on	Powered on and successfully connected to Mind.	○○○○○
White - breathing	Powered on but not connected to Mind.	○○○○○
White - flashing	Powered and has just been disconnected from Mind.	○○○○○
Off	Unplugged.	-



Graphics' indicator light is an RGB LED. When it is on, the default color is white. You can easily personalize this color to your preference using the Mind App.

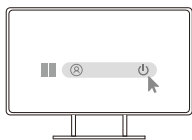
* If there isn't any visual output on your monitor, this may indicate that the graphics card driver hasn't been installed. For detailed instructions on solving this issue, please go to the Khadas official website at www.khadas.com/mind/support.

Disconnect Mind from Graphics

When Mind is connected to Graphics, the Mind Lock Mechanism will automatically lock into place to prevent any accidental disconnection, saving your workflow from being interrupted. To disconnect, you have two options:

Option 1 - Turn Off Mind

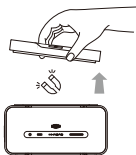
On the Windows taskbar, click Start  and then select  > **Shut down**. Alternatively, you can press and hold the power button on Mind for 8 seconds to force it into shutting down. Once done, the indicator light on your Graphics will start to flash for 5 seconds, and then breathe (white color). This means that Mind has been disconnected from Graphics and you can remove Mind safely.



or

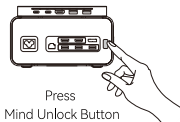


Press and hold the power button for 8 seconds



Option 2 - Press the Mind Unlock Button

Press the Mind Unlock Button located at the back of Graphics. You'll see a pop-up notification on the Mind App: "Do you want to disconnect Graphics?". Click **Confirm** to proceed. The indicator light on Graphics will start to flash for 5 seconds, and then breathe (white color), indicating you can remove Mind safely.

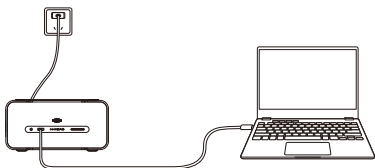


Forcing a Disconnection

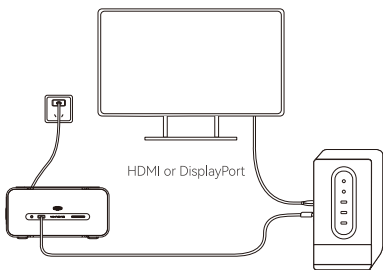
If you can't disconnect Mind from Graphics using either of the methods above, press and hold the Mind Unlock Button for 10 seconds. This will force the Mind Lock Mechanism to disengage, allowing you to safely remove Mind from Graphics.

Connecting to a Laptop via USB-C

Laptops and desktop computers that come with Thunderbolt 4 or 3 can be connected to Mind Graphics via the USB-C port. Once connected, visit the NVIDIA official website to download and install the specific graphic card drivers required to enable the full graphics acceleration offered by your Graphics.



USB-C (Thunderbolt 4/3)



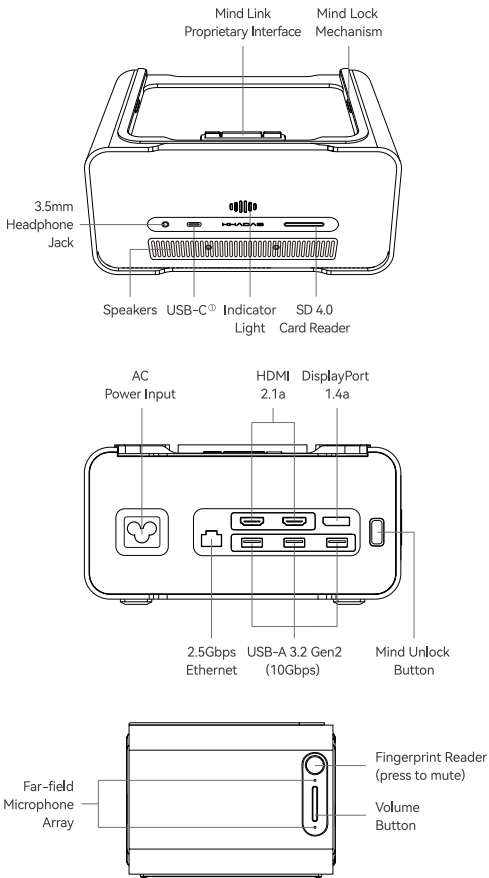
USB-C (Thunderbolt 4/3)

Priority: Mind Link vs. USB-C

Mind Graphics prioritizes the Mind Link connection over USB-C by default.

- If you wish to connect Graphics to another device via the USB-C port while it's connected to Mind, you must first disconnect Mind from Graphics.
- Should Graphics be connected to another device through the USB-C port and you wish to switch to the Mind Link connection with Mind, ensure to save any data on the USB-C-connected device first. Establishing a connection between Mind and Graphics will forcibly terminate the USB-C connection to the other device.

Diagram



① USB-C supports Thunderbolt 4, Thunderbolt 3 and USB4.

Tech Specs

Size	199 mm × 133 mm × 100 mm
Weight	2.7 kg
Graphics Card	NVIDIA GeForce® RTX™ 4060 Ti (desktop class)
Video Memory	8GB/16GB GDDR6
Power	Input voltage: 100V–240V Input frequency: 50Hz/60Hz Output voltage: 20V Output current: 7A Power supply: 300W
Work Environment	Temperature: 10°C–35°C Relative Humidity: 5%–90% (non-condensing)
Storage Environment	Temperature: -10°C–45°C Relative Humidity: 5%–90% (non-condensing)

Safety Guidelines

To have the best experience when using the product and to avoid dangers including potential personal injury, please thoroughly read and follow the safety guidelines below.

- This product operates at a high voltage. When using the product, ensure that it is properly connected to a grounded power source with a voltage range of 100V–240V. Failure to do so may result in product malfunction or even fire hazards.
- Only use the provided power cord that comes with this product. Using unauthorized or incompatible cords can lead to fire hazards, explosions, or other potential dangers.
- Operate this product within the temperature range of 10°C–35°C and store it within -10°C–45°C. Extreme temperatures may cause operational issues or damage the product.
- When minors use this product, they must be supervised by adults to prevent accidents like electric shock or mishandling that could damage the product.
- Keep the product in a dry environment and avoid placing it near water sources like pools, bathtubs, or bathrooms. If the product is accidentally exposed to water, immediately disconnect the power. Do NOT unplug the power cord with wet hands.
- Do NOT attempt to repair or replace any product parts yourself. For service inquiries, please contact us via the official Khadas email (support@khadas.com).

List of Hazardous Substances

Hazardous Substances	Component Name	
	Device	PCBA
Pb	×	×
Hg	○	○
Cd	○	○
Cr ⁶⁺	○	○
PBB	○	○
PBDE	○	○
DIBP	○	○
DEHP	○	○
BBP	○	○
DBP	○	○

This table has been prepared in accordance with SJ/T 11364.

- : Indicates that the content of the hazardous substance in all homogeneous materials of the component is below the limit specified in EN62321.
- × : Indicates that the hazardous substance is present in at least one homogeneous material of the component at a level exceeding the limit specified in EN62321 because there is no proven alternative in the industry, that meets the environmental requirements of the EU RoHS directive. Depending on the model, the product may not include all the above accessories except the main machine, please refer to the actual product sales collocation.



This logo indicates that the product has a 10 year environmentally-friendly use period (EPUP) under normal conditions. For accessories, the environmentally-friendly use period (EPUP) on the label prevails.

