AORUS RTX 5090 AI BOX

Water-cooled external graphics

Installation Guide

Download the AI BOX driver
installation tool here

Warning !! Not using this installation tool may result in the AI BOX not functioning correctly.

▶ PACKAGE CONTENT:

- AORUS RTX 5090 AI BOX (Includes GIGABYTE GeForce RTX™ 5090 32G graphics card) *1
- Thunderbolt™ 5 cable 800mm (USB Type-C) *1
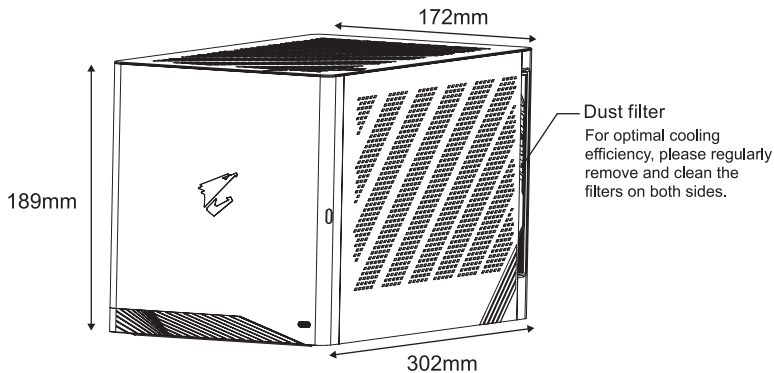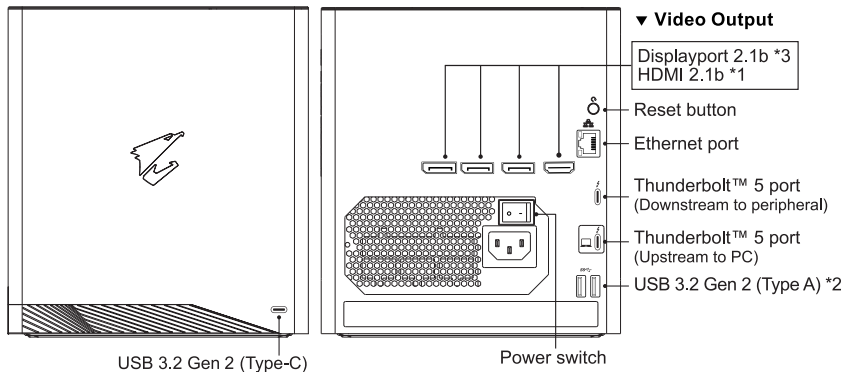- Power cord *1
- Installation guide *1

▶ SYSTEM REQUIREMENT:

- Laptop/Desktop PC with a Thunderbolt™ port and supports external GPU.
- Please confirm the Thunderbolt™ 5 compatibility on your laptop/ desktop to ensure the maximum performance.
- Microsoft® Windows® 11 version 24H2 or later.
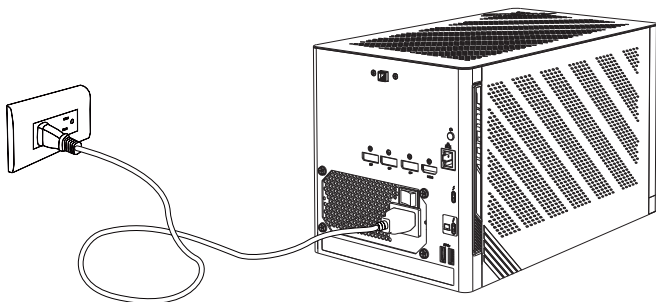
▶ PRODUCT FEATURES:

- Powered by the NVIDIA Blackwell architecture and DLSS 4.
- The GeForce RTX 5090 empowers laptops with robust computing power, capable of handling gaming, creating and AI application.
- Thunderbolt™ 5 & USB 4 plug and play.[1]
- Supports Thunderbolt™ 5 daisy chain.
- WATERFORCE all-in-one cooling system.
- Supports Thunderbolt™ 5 *1 and USB 3.2 Gen 2 *3 for peripherals.
- Supports Ethernet port.
- Supports Power Delivery (PD 3.1) for Quick Charge.
- RGB lighting.

[1] Please note the certain limitations may apply when using USB4. For further details, please refer to our website: https://www.gigabyte.com/Graphics-Card/GV-N5090IXEB-32GD/support#support-faq

▶ I/O

▼ **Video Output**

Displayport 2.1b *3
HDMI 2.1b *1

Reset button

Ethernet port

Thunderbolt™ 5 port
(Downstream to peripheral)

Thunderbolt™ 5 port
(Upstream to PC)

USB 3.2 Gen 2 (Type A) *2

USB 3.2 Gen 2 (Type-C)

Power switch

172mm

189mm

302mm

Dust filter
For optimal cooling
efficiency, please regularly
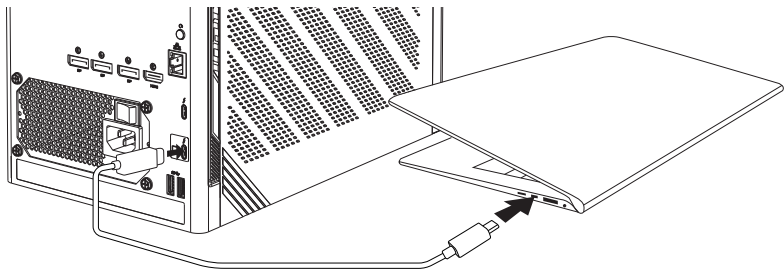remove and clean the
filters on both sides.
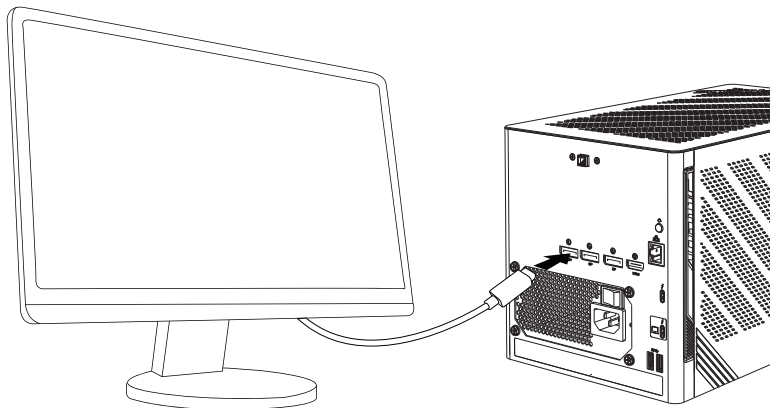
▶ Hardware installation

1. Connect the AORUS RTX 5090 AI BOX to a 110-240V power source using the power cord, then turn on the power switch.

2. Connect the AORUS RTX 5090 AI BOX to your laptop or desktop PC using the Thunderbolt™ 5 cable.

3. Connect your AORUS RTX 5090 AI BOX to an external monitor via the DisplayPort or HDMI for an enhanced user experience and superior performance.

4. One Thunderbolt™ 5 port and two USB Type-A ports at the rear and one USB Type-C port at the front, allowing easy connection of various peripherals such as keyboard, mouse, headset, or storage device.

5. Connect the Ethernet cable to the Ethernet port for a stable wired network connection.

▶ Software installation

- To ensure a smooth driver installation, please download our exclusive AI BOX driver installation tool from the link below. Simply follow the on-screen instructions to easily complete the driver installation process.
  https://www.gigabyte.com/Graphics-Card/GV-N5090IXEB-32GD/support#dl

  ### Warning !!
  Not using this installation tool may result in the AI BOX not functioning correctly.

  Due to the characteristics of Thunderbolt™ 5-PCIe devices, attempting manual driver installation may lead to unforeseen challenges or incorrect operation of the AI BOX.

- For extensive customization, download and install the GIGABYTE CONTROL CENTER from the GIGABYTE website.

▶ 中文說明

硬體安裝

1. 請使用電源線將 AORUS RTX 5090 AI BOX 連接至 110-240V 的電源，然後開啟電源開關。

2. 使用 Thunderbolt™ 5 傳輸線將 AI BOX 連接至您的筆記型電腦或桌上型電腦。

3. 透過 DisplayPort 或 HDMI 連接埠AI BOX 連接至外接螢幕，以獲得更佳的使用體驗和卓越效能。

4. AI BOX 後方有一個Thunderbolt™ 5與兩個 USB Type-A 連接埠，前方有一個 USB Type-C 連接埠，方便您輕鬆連接各種周邊設備，例如鍵盤、滑鼠、耳機或儲存裝置。

5. 將乙太網路線連接至乙太網路埠，以獲得穩定有線網路連線。

軟體安裝

- 為確保驅動程式安裝順利，請透過以下連結下載我們專屬的 AI BOX 驅動程式安裝工具：
  https://www.gigabyte.com/tw/Graphics-Card/GV-N5090IXEB-32GD/support#dl
  依照安裝工具畫面指示，即可輕鬆完成驅動程式的安裝。

  警告！！ 若不使用此安裝工具，可能導致 AI BOX 無法正常運作。
  由於 Thunderbolt™ 5-PCIe 裝置的特性，手動自行安裝驅動程式可能會遇到預期之外的困難，
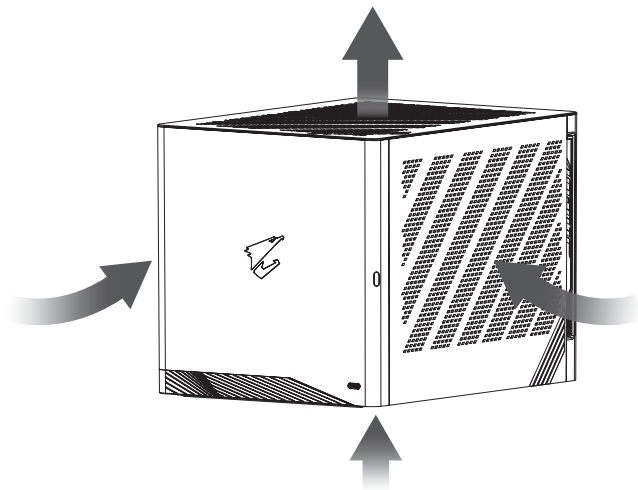 **或導致 AI BOX 操作異常。**

- 如需進行更多的個人化設定，請前往技嘉官方網站下載並安裝 GIGABYTE CONTROL CENTER 軟體。

提醒：為確保最佳散熱效果，請務必保持 AI BOX 周圍空間暢通。通風不良可能導致熱量過度積聚，進而影響顯示卡效能。

Note

- For optimal cooling, ensure the area around the AI BOX remains clear. Poor ventilation can lead to excessive heat buildup, affecting graphics card performance.

- Air intakes are located on the left, right, and bottom sides, while the exhaust is at the top. Please be cautious of the hot exhaust from the top vent and avoid obstructing it.

Caution: High Heat Output.

- To continue using your laptop with the lid closed, go to "Power and sleep buttons and lid settings" and set "When I close the lid" to "Do nothing."

Power and sleep buttons and lid settings

	On battery	Plugged in
When I press the power button:	Sleep	Sleep
When I press the sleep button:	Sleep	Sleep
When I close the lid:	Do nothing	Do nothing

- The AI BOX supports Power Delivery, providing 100W fast charging for your laptop.

Safety information :

- Operating Temperature: +10°C to +35°C
- Storage Temperature: -40°C to +70°C
- Operating Altitude: to 3000M
- Do not remove the casing of this product during operation
- To safely remove the top and side panels of the chassis –
  1. Press down all the way on the top panel latch on the back of the chassis
  2. Push and slide the top panel towards the back of the AI box and lift to remove the top panel
  3. Remove the dust filters completely by pulling them towards the back of the chassis
  4. The two side panels then can be removed by sliding them up and lifting away from the chassis
- To assemble the AI box back together –
  1. Align the rivets on both side panels with the notches on the box, then slide the side panels down
  2. Slide the dust filters towards the front of the chassis
  3. Press and slide the top panel towards the front of the AI box until you hear a click sound

AI BOX state	RGB light	Fan	Water pump	Note
Turn on	On	On	On	Connect the AI BOX to the laptop PC and Thunderbolt™ is activated.
Standby	Off	Off	Off	Power cord is connected. PC is shutdown.
Turn off	Off	Off	Off	Disconnect the power cord or press the "Reset" button over 3 seconds to turn off. Press the "Reset" button again to turn on.

R-R-GBN-GV-N5090IX32GD

R33006 RoHS

HIGH-DEFINITION MULTIMEDIA INTERFACE

AC INPUT: 100-240V~/ 10A/ 50-60Hz

Enabling or disabling the ErP LPS compliance mode

This AI Box meets the eco-design requirements of the ErP Lot 26 regulation.

You can enable the ErP LPS compliance mode in Gigabyte Control Center to reduce the consumption of electricity when your computer is off or in sleep mode.

To enable or disable ErP LPS compliance mode, do one of the following:

A. Using GCC Software
1. Start Gigabyte Control Center
2. Navigate to the home page and select the AI Box device
3. Under performance tab, select "Enable" for ErP LPS compliance mode, and set how many minutes the device will enter ErP LPS compliance mode after computer is off or in sleep mode
4. Click "Apply" to save the setting

B. Using the Reset button
1. Press and hold the Reset button for 4 seconds to enter ErP compliance mode directly

When the ErP LPS compliance mode is enabled, you can wake up the AI Box by pressing the Reset button once.

設備名稱 : 顯示卡 (外接盒) Equipment name			型號(型式) : Type designation (Type)			

單元 Unit	Restricted substances and its chemical symbols 限用物質及其化學符號					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
電路板 PCBA	○	○	○	○	○	○
電子元件 Electronic component	–	○	○	○	○	○
金屬機構件 Metal parts	–	○	○	○	○	○
塑膠機構件 Plastic parts	○	○	○	○	○	○
線材 Cables	○	○	○	○	○	○

備考1. "超出0.1 wt %" 及 "超出0.01 wt %" 係指限用物質之百分比含量超出百分比含量基準值。
Note 1 : "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted
substance exceeds the reference percentage value of presence condition.

備考2. "○" 係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2 : "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference
value of presence.

備考3. "–" 係指該項限用物質為排除項目。
Note 3 : The "–" indicates that the restricted substance corresponds to the exemption.

廠商料號條碼

12WE6-N509EB-0*R