Aurora R6 Setup and Specifications

Notes, cautions, and warnings



NOTE: A NOTE indicates important information that helps you make better use of your product.



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Set up your computer

1 Connect the keyboard and mouse.



2 Connect the network cable — optional.



3 Connect the display.



- NOTE: The DisplayPort on the back panel of your computer is covered. Connect the display to the discrete graphics card of your computer.
- NOTE: If you have two graphics cards, the card installed in PCI-Express X16 (graphics slot 1) is the primary graphics card.
- 4 Connect the power cable.



Press the power button.



Setting up the Virtual Reality (VR) headset — optional

NOTE: The VR headset is sold separately.

- 1 Download and run the setup tools for your VR headset at www.dell.com/VRsupport.
- 2 Connect the VR headset to the designated USB and HDMI ports on your computer, when prompted.



- NOTE: Connect the headset to the HDMI port on the primary graphics card and connect the display to any available port on the card.
- **3** Follow the instructions on the screen to complete the setup.

Views

Front



1 USB 3.0 ports (2)

Connect peripherals such as storage devices and printers. Provide data transfer speeds up to 5 Gbps.

2 Headphone port

Connect a headphone or speakers.

3 Microphone port

Connect an external microphone to provide sound input.

4 USB 3.0 ports with PowerShare (2)

Connect peripherals such as storage devices and printers. Provides data transfer speeds up to 5 Gbps.

PowerShare allows you to charge your USB devices even when your computer is turned off.

5 AlienHead/Power button

Press to turn on the computer if it is turned off or in sleep state.

Press to shut down the computer if it is turned on.

Press and hold for 4 seconds to force shut-down the computer.

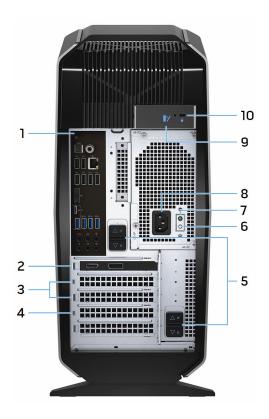
6 Optical drive (optional)

Reads from and writes to CDs, DVDs, and Blu-ray discs.

7 Optical-drive eject button

Press to open or close the optical drive tray.

Back



Back panel 1

Connect USB, audio and other devices.

2 PCI-Express X16 (graphics slot 1)

Connect a PCI-Express card such as graphics, audio, or network card to enhance the capabilities of your computer.

For optimal graphics performance, use a PCI-Express X16 slot for connecting the graphics card.



NOTE: If you have two graphics cards, the card installed in PCI-Express X16 (graphics slot 1) is the primary graphics card.

3 PCI-Express X4 slots (2)

Connect a PCI-Express card such as graphics, audio, or network card to enhance the capabilities of your computer.

4 PCI-Express X16 (graphics slot 2)

Connect a PCI-Express card such as graphics, audio, or network card to enhance the capabilities of your computer.

For optimal graphics performance, use a PCI-Express X16 slot for connecting the graphics card.

5 Power-supply cage release-latches (2)

Allows you to remove the power supply unit from your computer.

6 Power-supply diagnostics button

Press to check the power-supply state.

7 Power-supply diagnostics light

Indicates the power-supply state.

8 Power port

Connect a power cable to provide power to your computer.

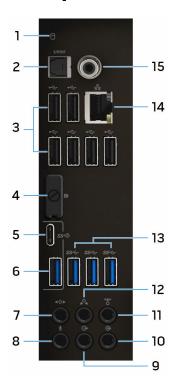
9 Side panel release latch

Allows you to remove the side panel from your computer.

10 Security-cable slot

Connect a security cable to prevent unauthorized movement of your computer. This prevents the side panel release latch from opening.

Back panel



1 Hard-drive activity light

Turns on when the computer reads from or writes to the hard drive.

2 Optical S/PDIF port

Connect an amplifier, speakers, or a TV for digital audio output through optical cables.

3 USB 2.0 ports (6)

Connect peripherals such as storage devices and printers. Provides data transfer speeds up to 480 Mbps.

4 DisplayPort

Connect an external display or a projector.



NOTE: The DisplayPort on the back panel of your computer is covered. Connect the display to the discrete graphics card of your computer.

5 USB 3.1 Type-C port

Connect peripherals, such as external storage devices and printers. Provides data transfer speeds up to 10 Gbps.

6 USB 3.1 Type-A port

Connect peripherals, such as storage devices and printers. Provides data transfer speeds up to 10 Gbps.

7 Side L/R surround port

Connect the side-left and side-right speakers or surround sound speakers.

8 Microphone port

Connect an external microphone to provide sound input.

9 Front L/R surround line-out port

Connect audio-output devices such as speakers and amplifiers. In a 5.1 speaker channel setup, connect the front-left and front-right speakers.

10 Line-in port

Connect recording or playback devices such as a microphone or CD player.

Center/subwoofer LFE surround port 11

Connect the subwoofer.



NOTE: For more information about the speaker setup, refer the documentation that shipped with the speakers.

Rear L/R surround port

Connect audio-output devices such as speakers and amplifiers. In a 5.1 speaker channel setup, connect the rear-left and rear-right speakers.

13 **USB 3.0 ports (3)**

Connect peripherals such as storage devices and printers. Provides data transfer speeds up to 5 Gbps.

14 Network port

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or internet access.

The two lights next to the connector indicate the connectivity status and network activity.

15 Coaxial S/PDIF port

Connect an amplifier, speakers, or a TV for digital audio output through coaxial cables.

Specifications

Dimensions and weight

Table 1. Dimensions and weight

Height 472.5 mm (18.60 in)

Width 212 mm (8.34 in)

Depth 360.50 mm (14.19 in)

Weight 14.62 kg (32.23 lb)



NOTE: The weight of your computer varies depending on the configuration ordered and the manufacturing variability.

System information

Table 2. System information

Computer model Alienware Aurora R6

Processor 7th Generation Intel Core i3

7th Generation Intel Core i5/i5k

7th Generation Intel Core i7/i7k



NOTE: If your computer is shipped with an Intel Core i5k or Intel Core i7k processor, you can overclock the processing speed beyond the standard specifications.

Chipset Intel Z270 chipset

Memory

Table 3. Memory specifications

Slots Four DIMM sockets

Type DDR4

Speed • 2400 MHz

Up to 2667 MHz with XMP (optional)

Configurations supported 4 GB, 8 GB, 16 GB, 32 GB, and 64 GB (2400

MHz only)

Ports and connectors

Table 4. Ports and connectors on the back panel

Back panel:	
Network	One RJ45 port
USB	 Six USB 2.0 ports One USB 3.1 Type-C port One USB 3.1 Type-A port Three USB 3.0 ports
Audio	 One audio input/microphone port One optical S/PDIF port One coaxial S/PDIF port One front L/R surround line-out port One side L/R surround port One rear L/R surround port One center/subwoofer LFE surround port One line-in port
Video	One DisplayPort - optional

Back panel:



NOTE: The DisplayPort on the back panel of your computer is covered. Connect the display to the discrete graphics card of your computer.

Table 5. Ports and connectors on the front panel

Front panel:	
USB	Two USB 3.0 portsTwo USB 3.0 ports with PowerShare
Audio	One audio output/headphone portOne audio input/microphone port

Communications

Table 6. Supported Communications

•••		
Ethernet	10/100/1000 Mbps Killer E2400 Ethernet controller integrated on system board	
Wireless	802.11b/g/n802.11acBluetooth 4.1/Bluetooth 4.2	

Video

Table 7. Video specifications

Integrated:		
Controller	Intel HD Graphics 630	
Memory	Shared system memory	
Discrete:		

Integrated: Type Up to two PCI-Express X16, single-width/double-width, full length (maximum 10.5 inches) NOTE: The graphics configuration of your desktop varies depending on the graphics card configuration ordered. Controller AMD or NVIDIA Also supports Dual AMD or NVIDIA (SLI)

Up to 12 GB

Audio

Memory

Table 8. Audio specifications

Controller Realtek ALC3861

Type Integrated 7.1 channel audio with S/PDIF support

Storage

Table 9. Storage specifications

Interface	SATA 6 Gbps
interrace	SATA O GDDS

Externally accessible One 5.25-inch drive bay for DVD+/-RW drive,

Blu-ray Disc combo (optional), or Blu-ray Disc

writer (optional)

Internally accessible

Solid-state drive (SSD) One M.2 drive



NOTE: If you purchased an M.2 drive, it is assigned as primary drive and all other SATA drives in your computer are assigned as secondary drives.

One 3.5-inch drive bay For one 3.5-inch SATA drive or two 2.5-inch

SATA drives (optional)



NOTE: If your computer is shipped with one 3.5-inch SATA drive, it is the primary drive. If your computer is shipped with two 2.5inch SATA drives, one is primary drive and the other is secondary drive.

Two 2.5-inch drive bays For two 2.5-inch SATA drives



NOTE: The SATA drives installed in these drive bays are secondary drives.

Power ratings

Table 10. Power adapter specifications

100 VAC-240 VAC Input voltage

Input frequency 50 Hz-60 Hz

Temperature range

5°C to 50°C (41°F to 122°F) Operating

-40°C to 70°C (-40°F to 158°F) Storage

Type 460 W 850 W

10 A Input current (maximum): 8 A

Output current: 3.3V/17A, 5V/25A, 3.3V/20A, 5V/20A,

> 12VA/32A, 12VB/48A, 12VA/18A, 12VB/16A, 12VD/16A, -12V/0.5A, 12VC/8A, 5Vaux/3A

> > 5Vaux/4A

Rated output voltage: 3.3V, 5V, 12VA, 12VB, 3.3V, 5V, 12VA, 12VB,

12VC, 5Vaux 12VD, -12V, 5Vaux

Computer environment

Airborne contaminant level: G2 or lower as defined by ISA-S71.04-1985

Table 11. Computer environment

	Operating	Storage
Temperature range	5°C to 35°C (41°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non- condensing)	0% to 95% (non- condensing)
Vibration (maximum)	0.26 GRMS	1.37 GRMS
Shock (maximum)*	40 G for 2 ms with a change in velocity of 20 in/s (51 cm/s) [†]	105 G for 2 ms with a change in velocity of 52.5 in/s (133 cm/s)‡
Altitude (maximum)	-15.20 m to 3048 m (-50 ft to 10,000 ft)	-15.20 m to 10,668 m (- 50 ft to 35,000 ft)

 $^{^{\}star}$ Measured using a random vibration spectrum that simulates user environment.

[†] Measured using a 2 ms half-sine pulse when the hard drive is in use.

Getting help and contacting Alienware

Self-help resources

You can get information and help on Alienware products and services using these online self-help resources:

Table 12. Alienware products and online self-help resources

Information about Alienware products <u>www.alienware.com</u> and services

Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on www.alienware.com/gamingservices

Videos providing step-by-step instructions to service your computer

www.youtube.com/alienwareservices

Contacting Alienware

To contact Alienware for sales, technical support, or customer service issues, see www.alienware.com.



NOTE: Availability varies by country and product, and some services may not be available in your country.



NOTE: If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.