

Alienware 17 R4

Setup and Specifications

Computer Model: Alienware 17 R4
Regulatory Model: P31E
Regulatory Type: P31E001

A L I E N W A R E 

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

Connect the power adapter and press the power button.



Views

Base



1 **Power button (Alienhead)**

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

Press to put the computer in sleep state if it is turned on.

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



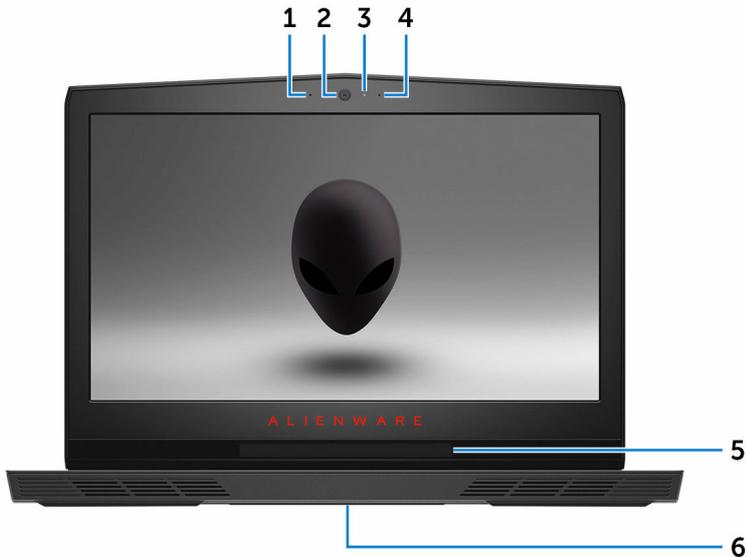
NOTE: You can customize the power-button behavior in Power Options.

2 **Macro keys**

Run pre-defined Macros.

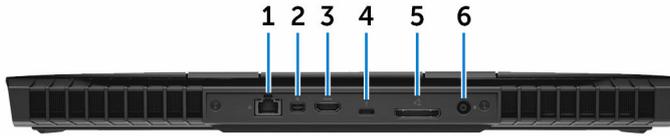
Define the macro keys using the Alienware Command Center.

Display



- 1 **Left microphone**
Provides digital sound input for audio recording and voice calls.
- 2 **Camera**
Enables you to video chat, capture photos, and record videos.
- 3 **Camera-status light**
Turns on when the camera is in use.
- 4 **Right microphone**
Provides digital sound input for audio recording and voice calls.
- 5 **Tobii eye-tracker**
Application that enables you to interact with your computer using your eyes.
- 6 **Service Tag label**
The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

Back



1 **Network port (with lights)**

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.

2 **Mini DisplayPort**

Connect a TV or another DisplayPort-in enabled device. Provides video and audio output.

3 **HDMI port**

Connect a TV or another HDMI-in enabled device. Provides video and audio output.

4 **Thunderbolt 3 (USB Type-C) port**

Supports USB 3.1 Gen 2, DisplayPort 1.2, Thunderbolt 3 and also enables you to connect to an external display using a display adapter.

Provides data transfer rates up to 10 Gbps for USB 3.1 Gen 2 and up to 40 Gbps for Thunderbolt 3.

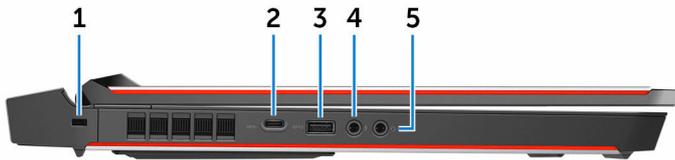
5 **External graphics port**

Connect an Alienware Graphics Amplifier to enhance the graphics performance.

6 **Power-adaptor port**

Connect a power adaptor to provide power to your computer and charge the battery.

Left



1 Security-cable slot

Connect a security cable to prevent unauthorized movement of your computer.

2 USB 3.0 (Type-C) port

Connect peripherals such as external storage devices, printers, and external displays.

Provides data transfer speeds up to 5 Gbps. Supports Power Delivery that enables power supply to devices. Provides up to 15 W power output that enables faster charging.

 **NOTE:** Adapters (sold separately) are required to connect standard USB and DisplayPort devices.

3 USB 3.0 port with PowerShare

Connect peripherals such as storage devices and printers.

Provides data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

 **NOTE:** If the charge on your computer's battery is less than 10 percent, you must connect the power adapter to charge your computer, and USB devices connected to the PowerShare port.

 **NOTE:** If a USB device is connected to the PowerShare port before the computer is turned off or in Hibernate state, you must disconnect and connect it again to enable charging.

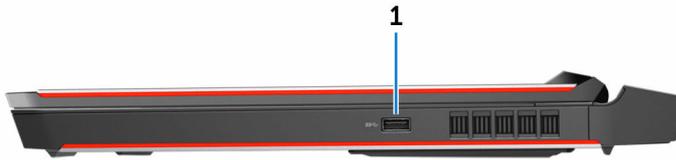
4 Microphone/headphone port (configurable)

Connect an external microphone for sound input or a headphone for sound output.

5 Headset port

Connect a headphone or a headset (headphone and microphone combo).

Right



1 USB 3.0 port

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

Specifications

Dimensions and weight

Height	29.99 mm (1.18 in)
Width	424 mm (16.69 in)
Depth	332 mm (13.07 in)
Weight	4.42 kg (9.74 lb)



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

System information

Computer model	Alienware 17 R4
Processor	6 th generation Intel Core i7/i7k



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

Chipset	Intel CM236 chipset
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Memory

Slots	Two SODIMM slots
Type	DDR4
Speed	2133 MHz, 2400 MHz, and 2667 MHz (8 GB x 2)
Configurations supported	8 GB, 16 GB, and 32 GB

Ports and connectors

Network	One RJ-45 port
USB	<ul style="list-style-type: none">• One USB 3.0 port• One USB 3.0 port with PowerShare• One USB 3.0 (Type-C) port• Thunderbolt 3 (USB Type-C) port
Audio/Video	<ul style="list-style-type: none">• One HDMI port• One microphone/headphone port (configurable)• One headset port• One Mini DisplayPort• One external graphics port

Communications

Ethernet	10/100/1000 Mbps Ethernet controller integrated on system board
Wireless	<ul style="list-style-type: none">• Wi-Fi 802.11ac• Bluetooth 4.1• Miracast

Audio

Controller	Realtek ALC 3266
Speakers	Stereo
Speaker output	<ul style="list-style-type: none">• Average: 4 W• Peak: 5 W
Subwoofer output	<ul style="list-style-type: none">• Average: 2 W• Peak: 2.5 W
Microphone	Digital-array microphones

Volume controls

Media-control shortcut keys

Storage

Interface

- SATA 6 Gbps
- PCIe up to 32 Gbps

Hard drive

One 2.5-inch drive

Solid-state drive (SSD)

- Two full-size M.2 PCIe/SATA drives
- One half-size M.2 PCIe/SATA drive

Keyboard

Type

Backlit keyboard

Shortcut keys

Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key.



NOTE: You can define the primary behavior of the function keys (F1–F12) by changing **Function Key Behavior** in BIOS setup program.

[Keyboard shortcuts](#)

Camera

Resolution

- Still image: 2.07 megapixel
- Video: 1920 x 1080 (Full HD) at 30 fps (maximum)

Diagonal viewing angle

74 degrees

Touch pad

Resolution

- Horizontal: 1727
- Vertical: 1092

Dimensions

- Height: 56 mm (2.20 in)
- Width: 100 mm (3.94 in)

Battery

Type	4-cell "smart" lithium-ion (68 WHr)	6-cell "smart" lithium-ion (99 WHr)
Weight (maximum)	0.32 kg (0.71 lb)	0.42 kg (0.93 lb)
Voltage	15.20 VDC	11.40 VDC
Life span (approximate)	300 discharge/charge cycles	
Temperature range: Operating	0°C to 35°C (32°F to 95°F)	
Temperature range: Storage	-20°C to 60°C (-4°F to 140°F)	
Coin-cell battery	CR-2032	
Dimensions:		
Height	13.50 mm (0.53 in)	
Width	89.20 mm (3.51 in)	
Depth	259.60 mm (10.22 in)	
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	

Video

	Integrated	Discrete
Controller	Intel HD Graphics 530	<ul style="list-style-type: none">• AMD Radeon RX 470

	Integrated	Discrete
		<ul style="list-style-type: none"> • NVIDIA GeForce GTX 1060 • NVIDIA GeForce GTX 1070 • NVIDIA GeForce GTX 1080
Memory	Shared system memory	<ul style="list-style-type: none"> • 6 GB GDDR5 • 8 GB GDDR5

Power adapter

Type	180 W	240 W	330 W
Input voltage	100 VAC–240 VAC	100 VAC–240 VAC	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz	50 Hz–60 Hz	50 Hz–60 Hz
Input current (maximum)	2.34 A/2.50 A	3.50 A	4.40 A
Output current (continuous)	9.23 A	12.30 A	16.92 A
Rated output voltage	19.50 VDC	19.50 VDC	19.50 VDC
Temperature range: Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Temperature range: Storage	–40°C to 70°C (–40°F to 158°F)	–40°C to 70°C (–40°F to 158°F)	–40°C to 70°C (–40°F to 158°F)

Display

Type	17.3-inch FHD (optional Tobii Eye-tracking)	17.3-inch QHD with Tobii Eye-tracking	17.3-inch UHD with Tobii Eye-tracking
Resolution (maximum)	1920 x 1080	2560 x 1440	3840 x 2160

Viewing angle (Left/Right/Up/ Down)	89/89/89/89 degrees	70/70/60/60 degrees	89/89/89/89 degrees
Pixel pitch	0.1989 mm	0.14925 mm	0.0995 mm
Height (excluding bezel)	214.81 mm (8.46 in)	214.92 mm (8.46 in)	214.94 mm (8.46 in)
Width (excluding bezel)	381.89 mm (15.04 in)	382.08 mm (15.04 in)	382.12 mm (15.04 in)
Diagonal (excluding bezel)	439.42 mm (17.30 in)	439.42 mm (17.30 in)	439.42 mm (17.30 in)
Refresh rate	60 Hz	120 Hz	60 Hz
Controls	Brightness can be controlled using shortcut keys		

Computer environment

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

	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)

* 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.

‡ Measured using a 2 ms half-sine pulse when the hard-drive head is in parked position.

Keyboard shortcuts

Keys	Description
 + 	Disconnect Alienware Graphics Amplifier
 + 	Disable/enable wireless
 + 	Mute audio
 + 	Decrease volume
 + 	Increase volume
 + 	Toggle integrated/discrete graphics
 + 	Switch to external display
 + 	Decrease brightness
 + 	Increase brightness
 + 	Disable/enable touch pad
 + 	Disable/enable AlienFX
	<p>Macro keys</p> <p> NOTE: You can configure modes and assign multiple tasks for the macro keys on the keyboard</p>
	
	
	
	

Keys	Description
⌘6	
⌘7	
⌘8	
⌘9	
⌘x	

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:

Information about Alienware products and services www.alienware.com

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.