

Alienware 15 R3

Setup and Specifications

Computer Model: Alienware 15 R3
Regulatory Model: P69F
Regulatory Type: P69F001

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 Infrared emitter

Emits infrared light, which enables the infrared camera to sense depth and track motion.

3 Infrared camera

Depth-sensing feature of the camera enhances security when paired with Windows Hello face authentication.

4 Camera

Enables you to video chat, capture photos, and record videos.

5 Camera-status light

Turns on when the camera is in use.

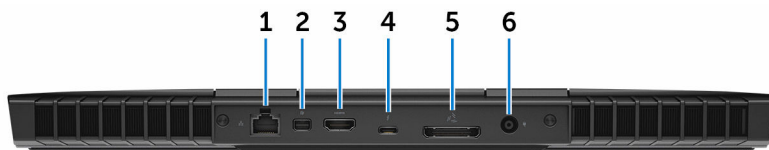
6 Right microphone

Provides digital sound input for audio recording and voice calls.

7 **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.

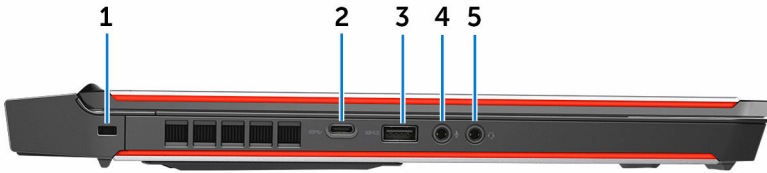
5 **External graphics port**

Connect an Alienware Graphics Amplifier to enhance the graphics performance.

6 **Power-adaptor port**

Connect a power adapter 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.

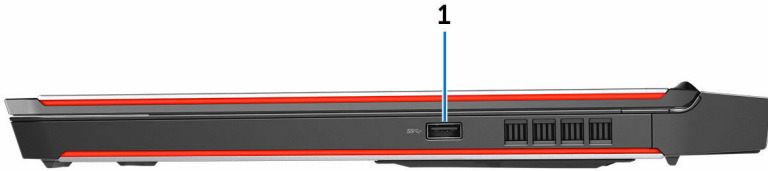
4 **Microphone/headphone port (configurable)**

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	25.40 mm (1 in)
Width	389 mm (15.31 in)
Depth	305 mm (12 in)
Weight	3.49 kg (7.69 lb)



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

System information

Computer model Alienware 15 R3

Processor

- 6th generation Intel Core i5
- 6th 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

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
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

1280 x 720 (HD)

Diagonal viewing angle

75 degrees

Touch pad

Resolution

- Horizontal: 1727

- Vertical: 1092
- Height: 56 mm (2.20 in)
- Width: 100 mm (3.94 in)

Dimensions

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 • NVIDIA GeForce GTX 1060

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

Power adapter

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

Display

Type	15.6-inch FHD	15.6-inch UHD
Resolution (maximum)	1920 x 1080	3840 x 2160
Viewing angle	50/60/80 degrees	80 degrees
Pixel pitch	0.17925 mm	0.090 mm
Height (including bezel)	344.16 mm (13.54 in)	345.60 mm (13.60 in)
Width (including bezel)	193.59 mm (7.62 in)	194.40 mm (7.65 in)
Diagonal	15.60 mm (0.61 in)	15.60 mm (0.61 in)

(excluding bezel)

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
 FN + F1	Disconnect Alienware Graphics Amplifier
 FN + F2	Disable/enable wireless
 FN + F3	Mute audio
 FN + F4	Decrease volume
 FN + F5	Increase volume
 FN + F7	Toggle integrated/discrete graphics
 FN + F8	Switch to external display
 FN + F9	Decrease brightness
 FN + F10	Increase brightness
 FN + F11	Disable/enable touch pad
 FN + F12	Disable/enable AlienFX
 \1	Macro keys
 \2	
 \3	
 \4	
 \5	

 **NOTE:** You can configure modes and assign multiple tasks for the macro keys on the keyboard

Keys	Description
	
	
	
	
	

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.