

Alienware 15 R3

Setup and Specifications

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



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.

Copyright © 2016 Dell Inc. or its subsidiaries. All rights reserved. Dell, EMC, and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners.

2016 - 11

Rev. A01

Contents

Set up your computer.....	5
Setting up the Virtual Reality (VR) headset — optional.....	5
HTC Vive.....	5
Oculus Rift.....	6
Oculus Rift with touch.....	8
Alienware Graphics Amplifier.....	10
Views.....	11
Base.....	11
Display.....	12
Back.....	13
Left.....	14
Right.....	15



Specifications..... 16

- Dimensions and weight..... 16
- System information..... 16
- Memory..... 17
- Ports and connectors..... 17
- Communications..... 17
- Audio..... 18
- Storage..... 18
- Keyboard..... 18
- Camera..... 19
- Touch pad..... 19
- Battery..... 19
- Video..... 20
- Power adapter..... 20
- Display..... 21
- Computer environment..... 21

Keyboard shortcuts..... 23

Getting help and contacting Alienware..... 25

- Self-help resources..... 25
- Contacting Alienware..... 25



Set up your computer

Connect the power adapter and press the power button.



Setting up the Virtual Reality (VR) headset — optional



NOTE: The VR headset is sold separately.



NOTE: If you are using Alienware Graphics Amplifier with your computer, see [Alienware Graphics Amplifier](#) .

HTC Vive

- 1 Download and run the setup tools for your VR headset at www.dell.com/VRsupport.



- 2 Connect the HDMI cable of the HTC Vive headset to the back of your computer.
- 3 Connect the USB cable from the Vive hub to the USB 3.0 port on the right side of your computer.
- 4 Follow the instructions on the screen to complete the setup.

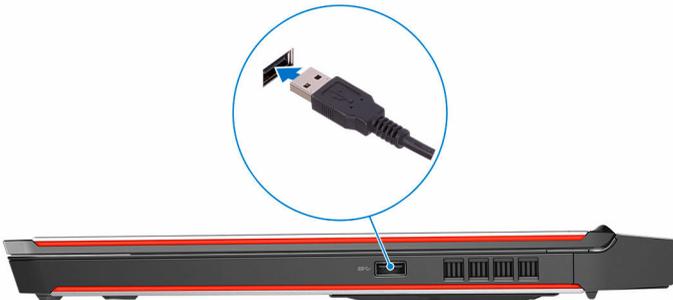
Oculus Rift

 **NOTE: The USB dongles are only shipped with computers that are Oculus certified.**

- 1 Download and run the setup tools for your VR headset at www.dell.com/VRsupport.
- 2 Connect the HDMI cable of the Oculus Rift headset to the back of your computer.



- 3 Connect the Oculus Rift headset to the USB Type-A port on the right side of your computer.



- 4 Connect the Oculus Rift tracker to the USB Type-A port on the left side of your computer.



- 5 Connect a USB Type-C to Type-A dongle to the Thunderbolt 3 (USB Type-C) port on the back of your computer.



- 6 Connect the XBOX controller to the USB Type-A port on the USB dongle.



- 7 Follow the instructions on the screen to complete the setup.



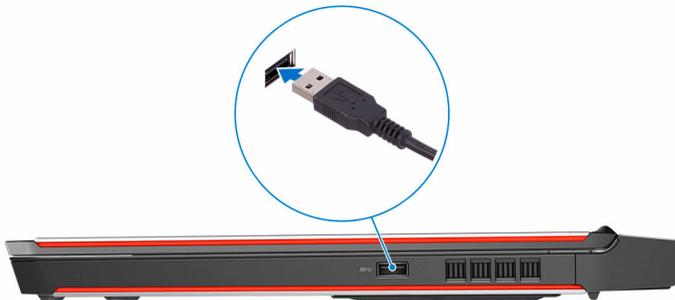
Oculus Rift with touch

 **NOTE: The USB dongles are only shipped with computers that are Oculus certified.**

- 1 Download and run the setup tools for your VR headset at www.dell.com/VRsupport.
- 2 Connect the HDMI cable of the Oculus Rift headset to the back of your computer.



- 3 Connect the Oculus Rift headset to the USB Type-A port on the right side of your computer.



- 4 Connect a USB Type-C to Type-A dongle to the Thunderbolt 3 (USB Type-C) port on the back side of your computer.



- 5 Connect the Oculus Rift tracker to the USB Type-A port on the left side of your computer.



- 6 Connect a USB Type-C to Type-A dongle to the USB 3.0 (Type-C) port on the left side of your computer.



- 7 Connect the XBOX controller to the USB Type-A port on the USB dongle.



- 8 Connect the Oculus Rift tracker for Touch to the USB Type-A port on the dongle.



- 9 Follow the instructions on the screen to complete the setup.

Alienware Graphics Amplifier

Alienware Graphics Amplifier enables you to connect an external graphics card to your computer.

When using the Virtual Reality (VR) headset, connect the HDMI cable to the graphics card installed on your Alienware Graphics Amplifier. The USB cables from the VR headset can be connected either to your computer or your Alienware Graphics Amplifier.



NOTE: The USB dongle is not required, if you are connecting the USB 3.0 cables on your VR headset to the USB 3.0 Type-A port on your Alienware Graphics Amplifier.

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.

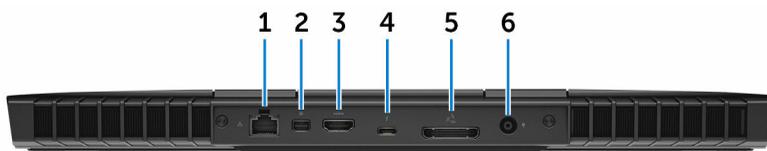
6 **Right microphone**

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**

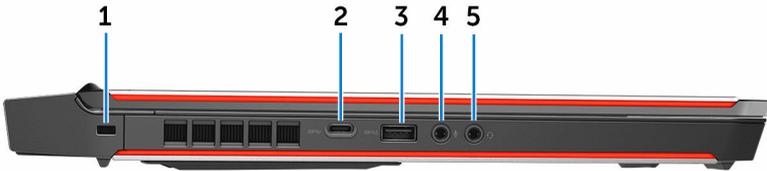
Connect an Alienware Graphics Amplifier to enhance the graphics performance.

6 **Power-adapter port**



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

Left



1 Security-cable slot (for Noble locks)

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.

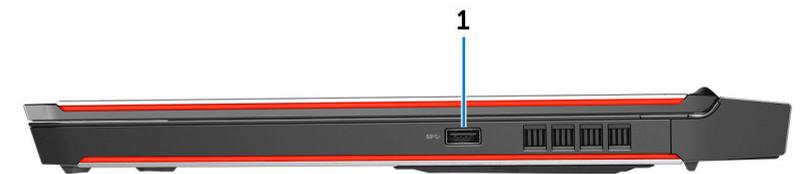
4 Microphone/headphone port (configurable)

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

Table 1. 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

Table 2. System information

Computer model	Alienware 15 R3
Processor	<ul style="list-style-type: none">• 6th generation Intel Core i5• 6th generation Intel Core i7/i7k• 7th generation Intel Core i5/i7k



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

Chipset	<ul style="list-style-type: none">• Intel CM236• Intel CM238
---------	---

Memory

Table 3. Memory specifications

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

Ports and connectors

Table 4. 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

Table 5. Communication specifications

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

Table 6. Audio specifications

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

Table 7. Storage specifications

Interface	<ul style="list-style-type: none"> • SATA 6 Gbps • PCIe up to 32 Gbps
Hard drive	One 2.5-inch drive
Solid-state drive (SSD)	<ul style="list-style-type: none"> • Two full-size M.2 PCIe/SATA drives • One half-size M.2 PCIe/SATA drive

Keyboard

Table 8. Keyboard specifications

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

Table 9. Camera specifications

Resolution	1280 x 720 (HD)
Diagonal viewing angle	75 degrees

Touch pad

Table 10. Touch pad

Resolution	<ul style="list-style-type: none">Horizontal: 1727Vertical: 1092
Dimensions	<ul style="list-style-type: none">Height: 56 mm (2.20 in)Width: 100 mm (3.94 in)

Battery

Table 11. Battery specifications

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

Table 12. Video specifications

	Integrated	Discrete
Controller	<ul style="list-style-type: none"> • Intel HD Graphics 530 • Intel HD Graphics 630 	<ul style="list-style-type: none"> • AMD Radeon RX 470 • NVIDIA GeForce GTX 1060 • NVIDIA GeForce GTX 1070
Memory	Shared system memory	<ul style="list-style-type: none"> • 6 GB GDDR5 • 8 GB GDDR5

Power adapter

Table 13. Power adapter specifications

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

Table 14. Display specifications

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 (excluding bezel)	15.60 mm (0.61 in)	15.60 mm (0.61 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



Table 15. 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)

* 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

Table 16. List of 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

Table 17. List of Macro keys



Macro keys



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



$\sqrt[4]{}$

$\sqrt[5]{}$

$\sqrt[6]{}$

$\sqrt[7]{}$

$\sqrt[8]{}$

$\sqrt[9]{}$

Δx

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
Dell Help & Support app	
Get started app	Get started app 
Accessing help	In Windows search, type Help and Support, and press Enter.
Online help for operating system	www.dell.com/support/windows www.dell.com/support/linux
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.