

# Alienware 13 R3

## Setup and Specifications

**Computer Model:** Alienware 13 R3  
**Regulatory Model:** P81G  
**Regulatory Type:** P81G001

A L I E N W A R E™ 

# Notes, cautions, and warnings

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 **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

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Connect the power adapter and press the power button.



# Views

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## 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.**

# 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.

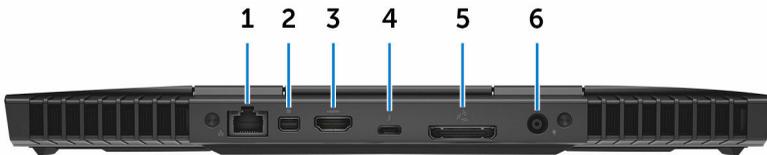
## 6 **Right microphone**

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

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

### 2 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.**

### 3 Microphone/headphone port (configurable)

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

### 4 Headset port

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

## Right



1 **USB 3.0 (Type-C) port**

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

Provides data transfer speeds up to 5Gbps. 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.**

2 **USB 3.0 port**

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

# Specifications

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## Dimensions and weight

**Table 1. Dimensions and weight**

Height	<ul style="list-style-type: none"><li>▪ Touch: 22 mm (0.87 in)</li><li>▪ Non-touch: 24 mm (0.95 in)</li></ul>
Width	330 mm (13 in)
Depth	269 mm (10.60 in)
Weight	2.63 kg (5.80 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 13 R3
Processor	6 <sup>th</sup> generation Intel Core i5/i7
Chipset	Intel HM170 chipset

## Memory

**Table 3. Memory specifications**

Slots	Two SODIMM slots
Type	DDR4
Speed	Up to 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"><li>▪ One USB 3.0 port</li><li>▪ One USB 3.0 port with PowerShare</li><li>▪ One USB 3.0 (Type-C) port</li><li>▪ Thunderbolt 3 (USB Type-C) port</li></ul>
Audio/Video	<ul style="list-style-type: none"><li>▪ One HDMI port</li><li>▪ One microphone/headphone port (configurable)</li><li>▪ One headset port</li><li>▪ One Mini DisplayPort</li><li>▪ One external graphics port</li></ul>

# Communications

**Table 5. Communication specifications**

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

# Audio

**Table 6. Audio specifications**

Controller	Realtek ALC 3266 with Alienware XENOWAVE sound effect
Speakers	Stereo
Speaker output	<ul style="list-style-type: none"><li>▪ Average: 4 W</li></ul>

Microphone  
Volume controls

- Peak: 5 W

Digital-array microphones  
Media-control shortcut keys

## Storage

**Table 7. Storage specifications**

Interface	PCI Express Gen3 x4 and SATA3 by auto detect
Solid-state drive (SSD)	Two M.2 PCIe/SATA drives

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

# Battery

**Table 11. Battery specifications**

Type	4-cell "smart" lithium-ion (76 WHr)
Weight (maximum)	0.30 kg (0.66 lb)
Voltage	15.20 VDC
Life span (approximate)	300 discharge/charge cycles
Temperature range	<ul style="list-style-type: none"><li>Operating: 0°C to 35°C (32°F to 95°F)</li><li>Storage: -20°C to 60°C (-4°F to 140°F)</li></ul>
Coin-cell battery	CR-2032
Dimensions:	
Height	7.20 mm (0.28 in)
Width	72.50 mm (2.85 in)

Depth	297.10 mm (11.70 in)
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

## Video

**Table 12. Video specifications**

	<b>Integrated</b>	<b>Discrete</b>
Controller	Intel HD Graphics 530	NVIDIA GeForce GTX 1060
Memory	Shared system memory	6 GB GDDR5

## Power adapter

**Table 13. Power adapter specifications**

Type	180 W
Input current (maximum)	2.34 A / 2.50 A
Output current (continuous)	9.23 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	13.3-inch Touch QHD OLED	13.3-inch Nontouch FHD LCD	13.3-inch Nontouch HD LCD
Resolution (maximum)	2560 x 1440	1920 x 1080	1366 x 768
Viewing angle	85 degrees	80 degrees	40 degrees
Pixel pitch	0.115 mm	0.153 mm	0.215 mm
Height (including bezel)	165.60 mm (6.52 in)	165.10 mm (6.50 in)	165 mm (6.50 in)
Width (including bezel)	294.40 mm (12 in)	293.60 mm (11.56 in)	293.40 mm (11.56 in)
Diagonal (excluding bezel)	337.82 mm (13.30 in)	337.82 mm (13.30 in)	337.82 mm (13.30 in)
Refresh rate	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

	<b>Operating</b>	<b>Storage</b>
Shock (maximum)*	40 G for 2 ms with a change in velocity of 20 in/s (51 cm/s) <sup>†</sup>	105 G for 2 ms with a change in velocity of 52.5 in/s (133 cm/s) <sup>‡</sup>
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

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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

# 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 17. Getting self help resources**

<b>Information about Alienware products and services</b>	<b>www.alienware.com</b>
<b>Windows 8.1 and Windows 10</b>	<b>Dell Help &amp; Support app</b> 
<b>Windows 10</b>	<b>Get started app</b> 
<b>Windows 8.1</b>	<b>Help + Tips app</b> 
<b>Accessing help in Windows 8, Windows 8.1, and Windows 10</b>	<b>In Windows search, type Help and Support, and press Enter.</b>
<b>Accessing help in Windows 7</b>	<b>Click Start → Help and Support.</b>
<b>Online help for operating system</b>	<b>www.dell.com/support/windows</b> <b>www.dell.com/support/linux</b>
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on	<b>www.alienware.com/gamingservices</b>
Videos providing step-by-step instructions to service your computer	<b>www.youtube.com/alienwareservices</b>

# Contacting Alienware

To contact Alienware for sales, technical support, or customer service issues, see [www.alienware.com](http://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.**