

# **Alienware 13 R3**

## **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



Connect the power adapter and press the power button.

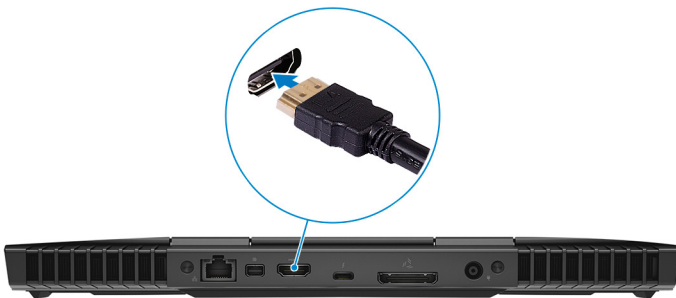
## Set up the Virtual Reality (VR) headset—optional

**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](http://www.dell.com/VRsupport).
2. Connect the HDMI cable of the HTC Vive headset to the back of your computer.

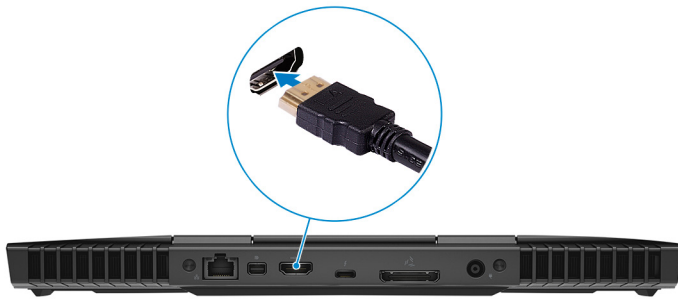


3. Connect the USB cable from the Vive hub to the USB 3.1 Gen 1 port at the right side of your computer.
4. Follow the on-screen instructions to complete the setup.

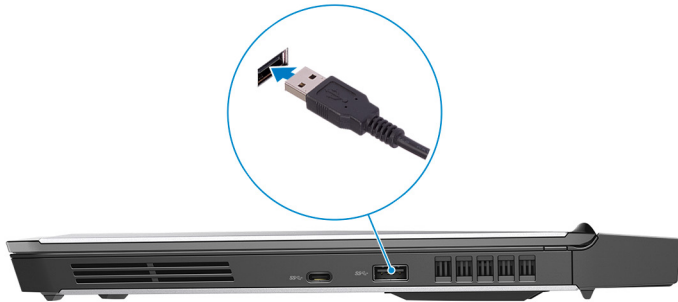
### Oculus Rift

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

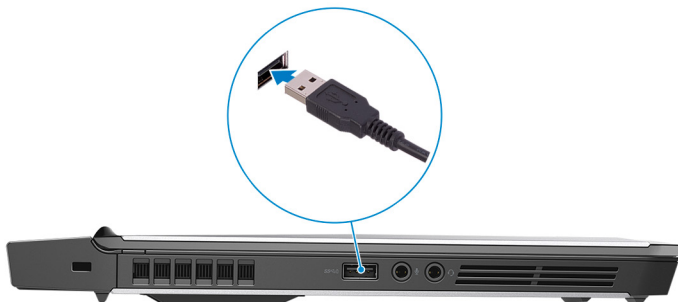
1. Download and run the setup tools for your VR headset at [www.dell.com/VRsupport](http://www.dell.com/VRsupport).
2. Connect the HDMI cable of the Oculus Rift headset to the back of your computer.



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



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



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



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



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

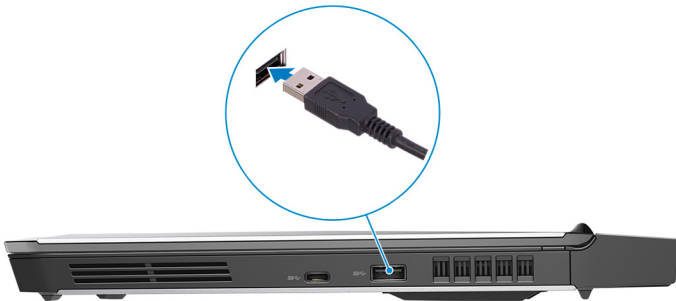
## Oculus Rift with touch

**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](http://www.dell.com/VRsupport).
2. Connect the HDMI cable of the Oculus Rift headset to the back of your computer.



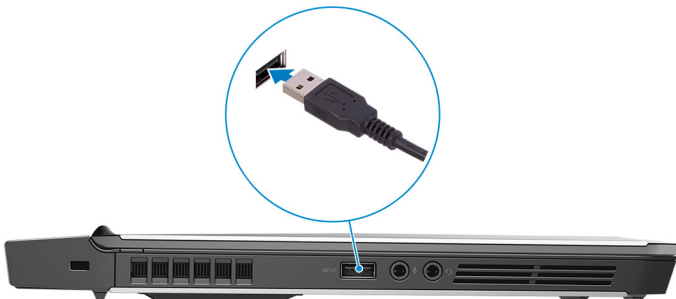
3. Connect the Oculus Rift headset to the USB Type-A port at the right side of your computer.



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



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



6. Connect a USB Type-C to Type-A dongle to the USB 3.1 Gen 2 (Type-C) port at the right 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 on-screen instructions 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.

For more information about Alienware Graphics Amplifier, see *Alienware Graphics Amplifier User's Guide* at <http://www.dell.com/support>.

# Views

## Base



### 1. Power button (Alienhead)

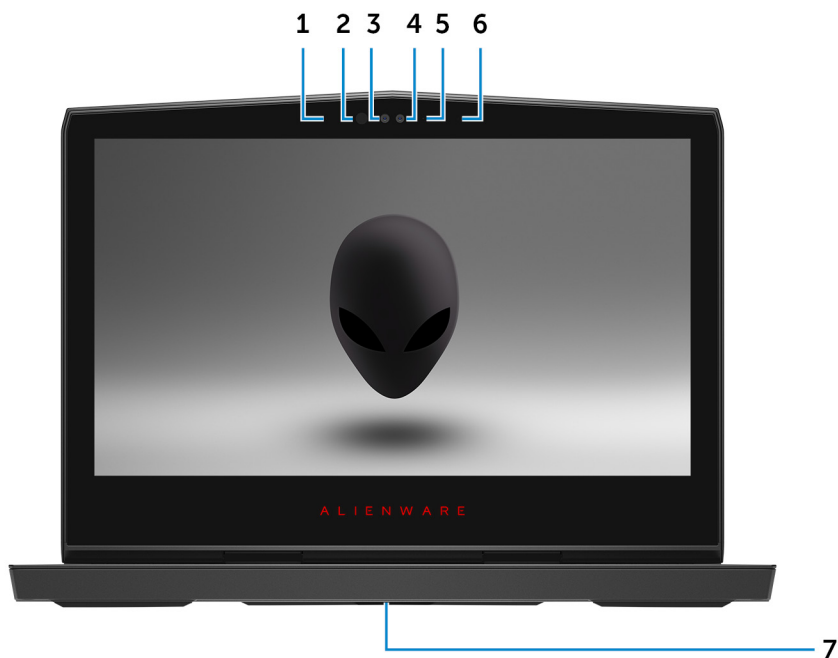
Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

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.

## 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.

**NOTE:** The infrared emitter blinks to detect the user's presence. To stop the emitter from blinking, turn off the Tobii Aware. For more information about the Tobii Aware, see [Tobii Aware](#).

## 3. Infrared 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.

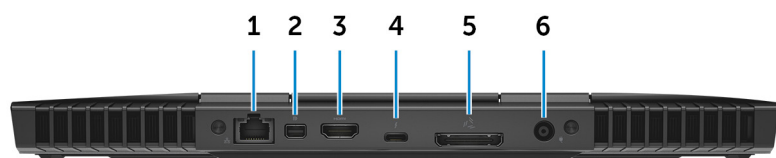
## 6. Right microphone

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

## 3. HDMI port

Connect to 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.

**NOTE:** A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

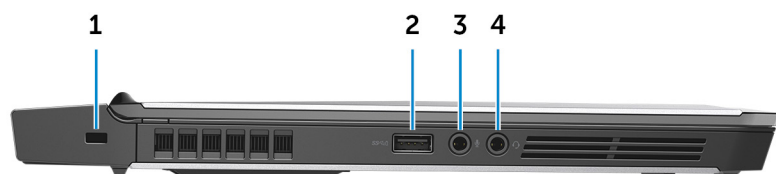
## 5. External graphics port

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 (for Noble locks)

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

### 2. USB 3.0 port with PowerShare

Connect peripherals such as external 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.

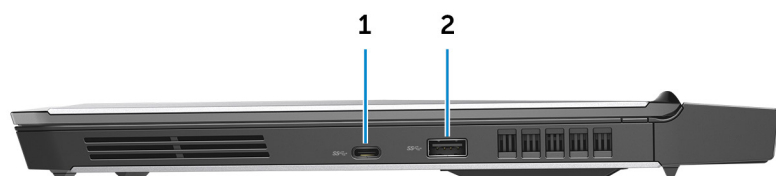
### 3. Microphone/headphone port (configurable)

Connect an external microphone for sound input or headphones for sound output.

### 4. Headset port

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

## Right



### 1. USB 3.0 (Type-C) port

Connect peripherals such as external storage devices and printers.

Provides data transfer speeds up to 5 Gbps. Supports Power Delivery that enables two-way power supply between devices.

Provides up to 15 W power output that enables faster charging.


### 2. USB 3.1 Gen 1 port

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

# Specifications

## 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)  <b>NOTE: The weight of your computer varies depending on the configuration ordered and the manufacturing variability.</b>

## System information

Table 2. System information

Computer model	Alienware 13 R3
Processor	<ul style="list-style-type: none"><li>▪ 6<sup>th</sup> Generation Intel Core i5/i7</li><li>▪ 7<sup>th</sup> Generation Intel Core i5/i7</li></ul>
Chipset	<ul style="list-style-type: none"><li>▪ Intel HM170</li><li>▪ Intel HM175</li></ul>

## 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"><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 2.0 port</li><li>▪ One microphone/headphone port (configurable)</li><li>▪ One headset port</li><li>▪ One Mini DisplayPort 1.2</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><li>▪ Miracast</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><li>▪ Peak: 5 W</li></ul>
Microphone	Digital-array microphones
Volume controls	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	<p>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.</p> <p> <b>NOTE: You can define the primary behavior of the function keys (F1–F12) by changing Function Key Behavior in BIOS setup program.</b></p> <p><a href="#">Keyboard shortcuts</a></p> <p> <b>NOTE: Use Alienware Command Center application, to configure the Macro keys on the computer. For more information, see the <i>Alienware Command Center Help</i>.</b></p>

# Camera

Table 9. Camera specifications

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

## Touch pad

**Table 10. Touch pad specifications**

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	297.10 mm (11.70 in)
Depth	72.50 mm (2.85 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"><li>Intel HD Graphics 530</li><li>Intel HD Graphics 630</li></ul>	<ul style="list-style-type: none"><li>NVIDIA GeForce GTX 1050</li><li>NVIDIA GeForce GTX 1050 Ti</li><li>NVIDIA GeForce GTX 1060</li></ul>
Memory	Shared system memory	<ul style="list-style-type: none"><li>2 GB GDDR5</li><li>4 GB GDDR5</li><li>6 GB GDDR5</li></ul>

## 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	0°C to 35°C (32°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)	0.66 GRMS	1.30 GRMS
Shock (maximum)*	110 G†	160 G‡
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.

# Tobii Aware

Tobii Aware application enables the infrared sensors on your computer to manage power, security, and Alien FX lighting.

## Features

The following table shows the features of Tobii Aware.

**Table 16. Features**























Dim brightness	Reduces screen brightness when you are not in front of it.
Turn off screen	Turns off the screen when you are not in front of it.
Sleep mode	Sends your computer to sleep before Windows power plan when you are not in front of the screen.
Turn off lights	Turns off the computer lights when you are not in front of the screen.
Windows Hello	Enables you to login to your computer without the login id or password when paired with Windows Hello face authentication.
Alien FX lighting	Enables Alien FX lighting feature when you are in front of your screen.

## Enabling or disabling Tobii Aware

1. Select the Eye detection indicator on the activity field in Windows.
2. Toggle the On/Off switch located on the top. Default: On
3. Save the settings and exit.

# Keyboard shortcuts

Table 17. 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 18. Alienware products and online self-help resources**

Self-help resources	Resource location
Information about Alienware products and services	<a href="http://www.alienware.com">www.alienware.com</a>
Tips	
Contact Support	In Windows search, type <b>Contact Support</b> , and press <b>Enter</b> .
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a> <a href="http://www.dell.com/support/linux">www.dell.com/support/linux</a>
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on	<a href="http://www.alienware.com/gamingservices">www.alienware.com/gamingservices</a>
VR Support	<a href="http://www.dell.com/VRsupport">www.dell.com/VRsupport</a>
Videos providing step-by-step instructions to service your computer	<a href="http://www.youtube.com/alienwareservices">www.youtube.com/alienwareservices</a>

## 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/region and product, and some services may not be available in your country/region.

 **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.