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Rift Hardware Setup

You're now ready to set up your Rift hardware.

Update your Graphics Card Driver

We recommend updating your graphics card (GPU) driver to the latest public version.

If your Rift hasn't arrived yet, you can save time later by updating your driver now. This gives your Rift the highest possible resolution, fastest responses and most convincing VR (virtual reality) experience. The Oculus software will prompt you to update your driver during setup if it's out of date.

- For NVIDIA, update to the latest public version.
 1. Install the [NVIDIA GeForce Experience](#) if you haven't already. This is NVIDIA's own software designed to help you with driver updates.
 2. On your Windows desktop, open the system tray in the bottom-right.

Note: You may need to click the upward-facing triangle to the left of your status icons, such as Wi-Fi status, to open hidden icons.
 3. Click the green NVIDIA icon.
 4. Select Open NVIDIA GeForce Experience.
 5. Open the Drivers tab.
 6. Click Check for updates.
 7. Download the current (64-bit) driver for your graphics card.
 8. Choose the Express Install option and follow the prompts to complete the update.
 9. The update process takes a few minutes.



Note: If you're having issues, see our [Rift Hardware Troubleshooting](#) page.

- For AMD, update to the latest public version.
 1. Right-click your Windows desktop and select AMD Radeon Settings or AMD Catalyst Control Center.
 2. Select Information.
 3. Select Software Update.
 4. Click Check for updates now.
 5. Download the current (64-bit) driver for your graphics card.
 6. Launch the downloaded file and follow the prompts to complete the update.
 7. The update process takes a few minutes.
 8. The Oculus software will restart automatically after you finish updating your driver.

Note: If you're having issues, see [Rift Hardware Troubleshooting](#).

Set Up your Rift

Next, unbox the Rift headset, Oculus sensor, Oculus remote and Xbox controller.



Get ready to connect the Rift headset and Oculus sensor to your computer.

1. Remove the protective films from the headset lenses.

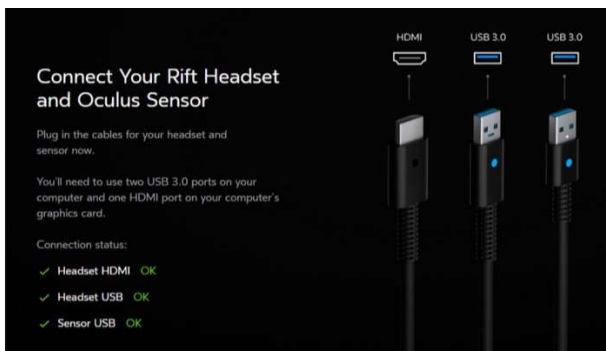
Note:

- Handle the headset with care. Never drop it or treat it roughly.
- Follow our [Rift Headset and Lens Care](#) recommendations at all times.

3. Connect the HDMI end of the headset cable to the HDMI port on your graphics card.

Note: Don't use the HDMI port on your motherboard, if you have one. If you aren't sure which HDMI port to use, try the one on the narrower and simpler panel on the back of your computer. (Most graphics cards are about 25 mm wide, whereas the motherboard panel will usually be wider and have more ports on it.)

4. Connect the USB end of the headset cable to a USB 3.0 (blue) port on your computer.
5. Connect the sensor cable to another USB 3.0 (blue) port on your computer.
6. You'll see three green icons in the bottom-left of the Oculus screen indicating that the headset and sensor have both been connected successfully.



7. Click Next.

Note:

- If you see red or yellow warning icons or have any other issues, try our [Rift Hardware Troubleshooting](#).
- There's still a few more things we'll need to do before you're ready to wear the Rift headset.

Updating Firmware

Let's make sure that your Rift has the latest firmware before you begin. This ensures that your Rift performs at its very best.

1. Click Update Now on the firmware update screen.

Note:

While the firmware update is being carried out:

2. You'll be notified when the firmware update is complete.

Connect your Oculus Remote

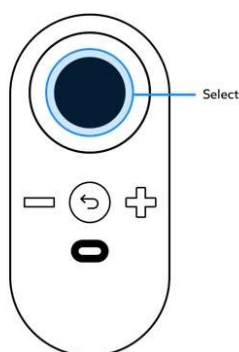
Your Oculus remote helps you navigate in Oculus Home, as well as some games and apps.

1. Gently pull the clear plastic tab out from the battery door on the back of the remote. This tab prevents the batteries from going flat during delivery.

Note:

If the plastic tab breaks or you can't remove it:

- a. Open the battery door by sliding the back side of the remote down towards the lanyard.
 - b. Use a pointed tool, such as the Audio Tool included, to pry the battery loose.
 - c. Remove the plastic tab.
 - d. Put the battery back in.
2. Press and hold the select button, which is in the centre of the navigation disk, to pair the remote with your headset.



3. You should now see that the Oculus remote is connected.
4. How to use the Oculus remote:



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1	Up	8	Volume Up
2	Status LED	9	Back Button (B Button)
3	Left	10	Volume Down
4	Select Button (A Button)	11	Oculus Button
5	Right	12	Battery Door
6	Navigation Disk	13	Lanyard
7	Down		

- Navigation disk – move up, down, backwards or forwards through menu options.
- Select button – select a menu option, or select an item in a game or app.

Note: The select button has the same function as the A button on the Xbox controller.

- Back button – cancel an option, or move back a screen.

Note: The back button has the same function as the B button on the Xbox controller.

- Volume down and Volume up – control the volume in the On-ear Headphones.
- Oculus button – press to access the Universal Menu from almost anywhere in Rift. (See [The Universal Menu.](#))

Note: If you ever need to replace, or disconnect and reconnect, the Oculus remote, you can manage your devices in the Devices section of the Oculus app settings. (See [Managing your Oculus Account, Privacy and Devices in the Oculus App](#))

Connect your Xbox One Wireless Controller

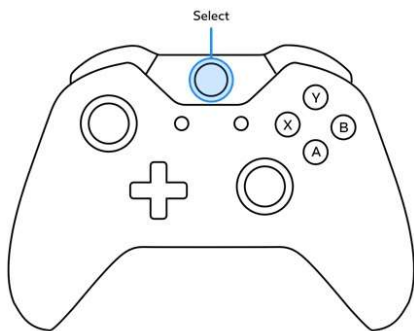
The Xbox controller gives you more ways to play games and navigate in Oculus.



1. Install the 2 x AA batteries into the Xbox controller.

Note: The batteries need to face in opposite directions. The marks on the battery springs show you which way to install each battery.

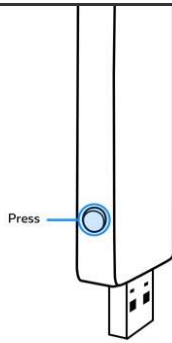
2. Press the Xbox button in the centre of the controller to power it on. The Xbox button will light up.



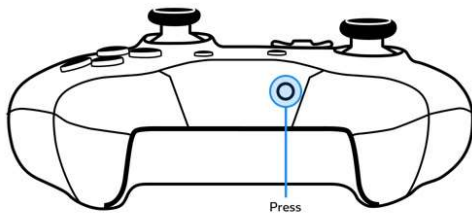
3. Connect the Xbox wireless adapter to any open USB port on your computer. For the best performance, don't use a USB hub.

Note: For the best possible connection strength, use the USB extension cable to connect the Xbox wireless adapter to your computer instead.

4. Press and hold the sync button on the side of the Xbox wireless adapter. The LED will blink.



5. Press and hold the sync button on the front edge of the Xbox controller. The Xbox button will flash while pairing.



6. You should now see that the Xbox controller is connected.

Note: If the controller doesn't connect, make sure that the Xbox controller is powered on (the Xbox button is lit up) first. Then, try holding down the small sync buttons on the Xbox wireless adapter and the Xbox controller at the same time. Otherwise, the pairing window may time out.

7. How to use the Xbox controller:



- Left thumbstick – move through your environment in certain games and apps. You can also move up, down, backwards or forwards through menu options when [Using the Oculus Store](#) or [Using the Oculus Library](#).

remote.

- B button – cancel an option, or move back a screen.

Note: The B button has the same function as the back button on the Oculus remote.

- Xbox button – press to access the Universal Menu from almost anywhere in Rift. (See [The Universal Menu.](#))

Note: If you ever need to replace, or disconnect and reconnect, the Xbox controller, you can manage your devices in the Devices section of the Oculus app settings. (See [Managing your Oculus Account, Privacy and Devices in the Oculus App](#))

Set Up your Oculus Sensor

The Oculus sensor makes sure that what you're seeing in Rift tracks your position and movement.

1. Enter your correct height when asked. This helps ensure that your VR environment looks right to you.
2. Remove the protective film from the sensor lens (the shiny side of the sensor body).
3. Find a good place for your Oculus sensor. The ideal position is:
 - Between 1 metre and 2 metres away from your head.
 - Where nothing will get in the way. Try crouching and stepping sideways to make sure that the edges of the desk or shelf you're using won't block your view of the sensor. Don't use an area where people will be walking between you and the sensor.
 - Where you'll normally be facing. Keep the sensor inside your starting field of view.
 - On a stable surface. Don't put the sensor on top of your monitor or computer, or anywhere else where it will vibrate or wobble.
 - Slightly above your headset. If this isn't possible, it's fine to have it below your head instead.
4. Take the Rift headset to the spot where you plan to use it.
5. Make sure that the sensor lens (the shiny side) is pointing at your head.
6. Gently adjust the angle of the sensor body on the sensor stand if necessary.

of your head.

9. You'll be notified when the Oculus sensor has found your headset.

Set Up Touch

Touch controllers give you hand presence and an even better way to interact in VR.

1. If you haven't already, connect your second sensor. You'll be prompted to set up Touch, including the correct arrangement for your second sensor.

Note: You can always run through the full Touch + Rift setup again at any time from the Devices pane in Settings in the Oculus app.

2. Follow the on-screen prompts to make sure that your sensors are set up at the correct distance and angle for proper tracking. You'll be prompted to set up Guardian System after that's complete.

Set Up Guardian System

Guardian System lets you map out a play area where you'll use Rift and Touch. Guardian System alerts you when you're near the boundaries of your play area.

1. After you set up Touch, you'll be prompted to set up Guardian System.

Note: You can always set up Guardian System again at any time from the Devices pane in Settings in the Oculus app.

2. Follow the on-screen prompts to map out the largest possible play area from the available space in your room. Make sure that there aren't any hazards within the boundaries of your play area. See our full [Health & Safety Warnings](#).

Personalise your Rift

Take a few minutes to adjust your Rift. You'll be more comfortable in VR if your Rift fits securely.

When your Rift headset fits you properly, it will be quick and easy to put it on from then on.



1. Open the side tabs on the main strap. Fasten the tabs to the middle of the strap arms as a starting point.
2. Open the top tab, loosen the top strap all the way and leave it loose. We'll adjust this separately in a minute.
3. Angle the On-ear Headphones outward.
4. To put on the headset and test the fit:
 - a. Hook the tracking triangle on the back of your head.
 - b. Then pull the headset body down over your face in one smooth motion.
 - c. If you need to wear glasses with Rift, you may prefer to put on the headset in a different way:
 - i. Hold the headset onto your face with one hand.
 - ii. Pull the straps down over the back of your head.
 - iii. You can wear glasses with frames up to 142 mm wide with the Rift headset. Don't use glasses that touch the headset lenses, though.
5. Tighten the side tabs slightly.
 - Keep tightening them until you feel the springs in the strap arms give slightly when you're putting on the headset.
 - Make sure that the side tabs are tightened evenly so that the headset is centred on your face and sits directly in front of your eyes.
 - The main strap should ride low, with the tracking triangle over the bony bump on the back of your head.



6. Tighten the top strap until you feel the weight balanced around your head.

- If you find that you're tempted to hold the headset like binoculars, adjust the straps a little tighter.
- After you've adjusted your Rift to fit you, you shouldn't usually have to make any adjustments when you wear it the next time.

7. Rotate the headphones into position and push them onto your ears.

8. Find the lens slider on the underside of the headset. It controls lens spacing inside the headset. Push and hold it into the headset, then slide it to get the sharpest possible image.

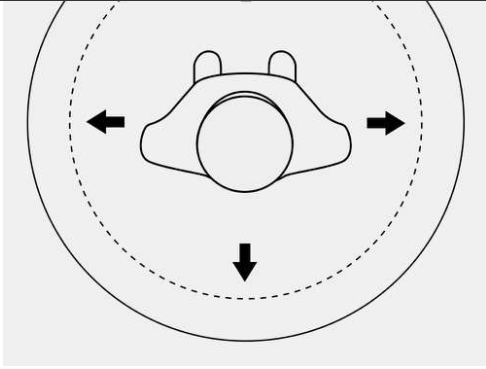


Enter Rift

Here are some tips to make sure that you're safe and comfortable while using your Rift.

For your safety and the safety of others, make sure that you:

- Clear an area of at least a few metres in all directions. Move anything that might get in your way, such as furniture or other objects.



- Always be aware of your surroundings while using the Rift.
- Don't use the Rift near stairs, balconies, windows or other people.
- Read our full [Health & Safety Warnings](#).

Now that you're ready:

1. Stand in the spot where you'd like to use Rift and face the Oculus sensor.
2. Slide your wrist through the Oculus remote's lanyard.
3. Put on the Rift headset.
4. Move the headset very slightly up and down on your face until the image is sharpest.
5. Then push in the lens slider on the bottom of the headset and slowly slide it from side to side until the image is sharpest.
6. The Oculus sensor will adjust to your position. Make sure that you've already [Set Up your Oculus Sensor](#).
7. Press the select button on the Oculus remote. You'll see a few short experiences to get you started in VR.

Welcome to Rift!

Previous: [Rift Software Setup](#)

Next: [Rift Setup Troubleshooting](#)

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