



XanderGlasses User Guide

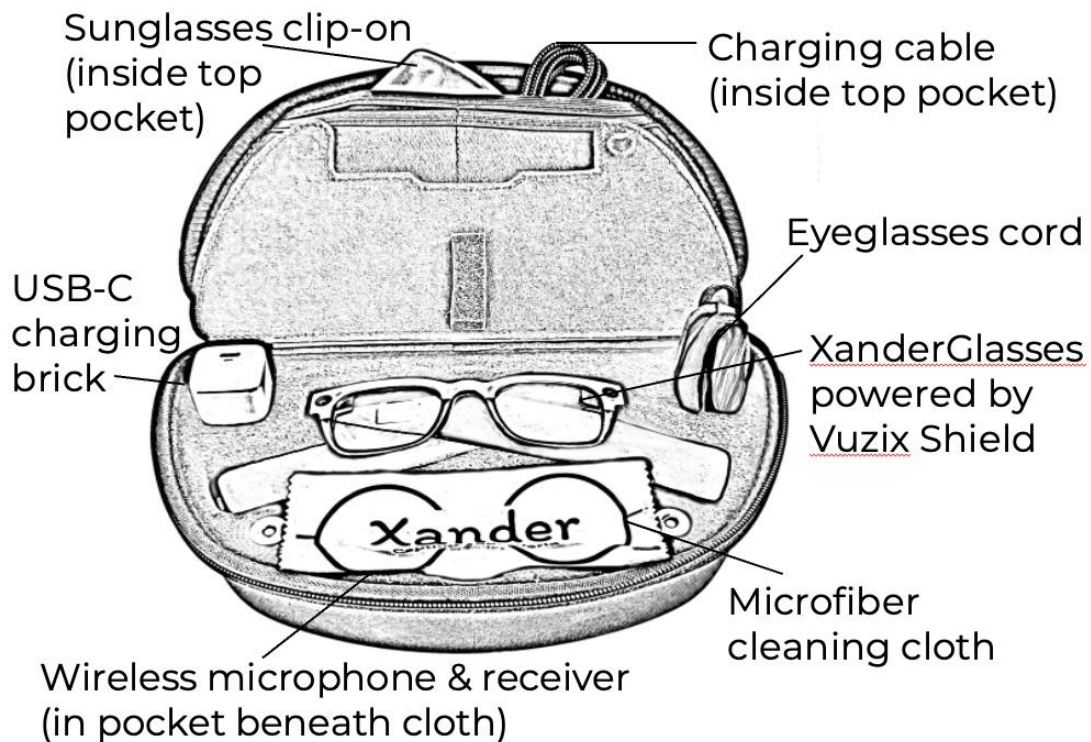


Real-time captioning glasses that empower you to understand speech when you can't clearly hear it.

Start Captioning Your World!

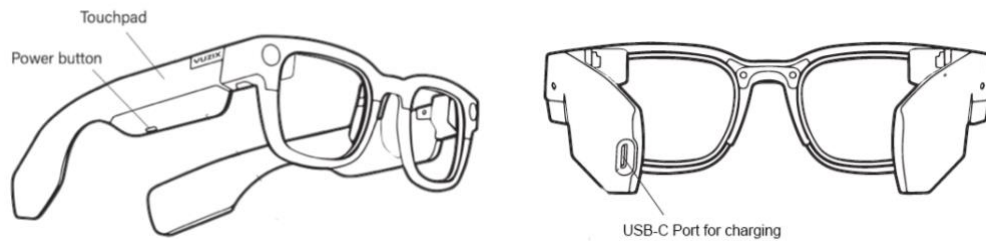
Inside Your XanderGlasses Kit

- Xander Captioning Glasses powered by Vuzix Shield smart glasses
- Sunglass clip-ons with case
- USB-C charging cable
- Power brick
- Eyeglasses cord/head strap
- Microfiber lens cleaning cloth
- Wireless microphone system
- Protective clamshell carrying case



Overview of Your Xander Captioning Glasses

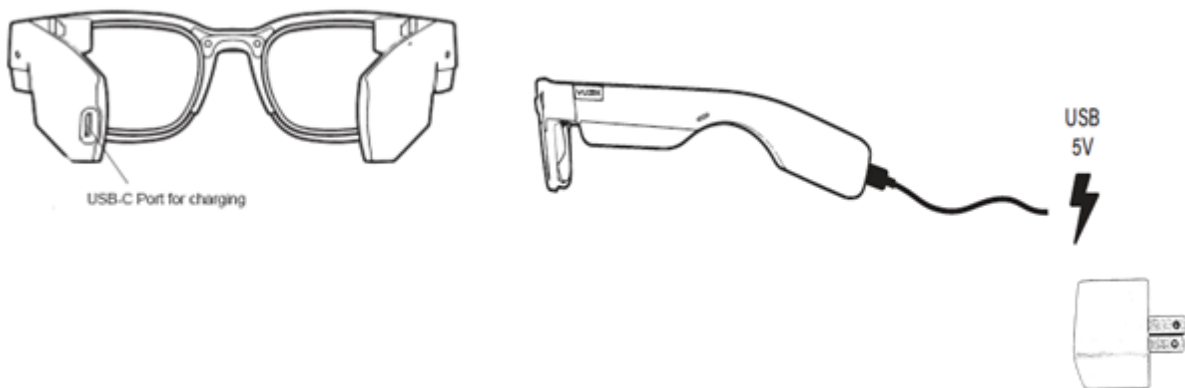
Your Xander Captioning Glasses are powered by Vuzix Shield smart glasses and have the following components.



Get Started on a Full Charge

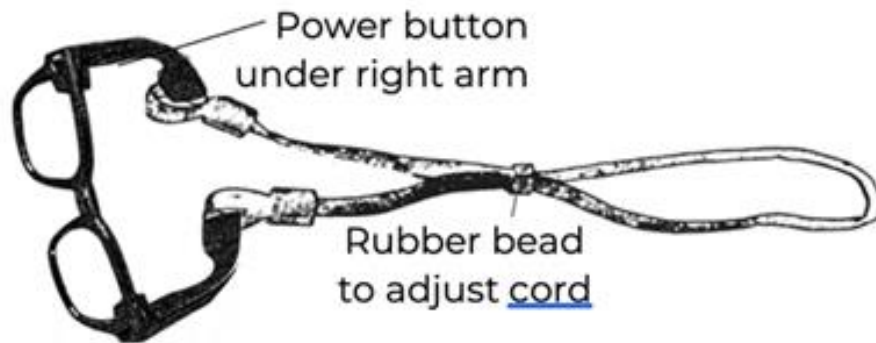
XanderGlasses arrive with a partial charge. Please charge fully before first use (about 2 hours).

Remove XanderGlasses, USB-C cable, and square power brick from the case. Connect charging cable to the USB-C port at the end of the glasses, then connect to power brick and charge.



Getting Comfortable with Your XanderGlasses

1. Remove XanderGlasses from the kit. The glasses arrive with an eyeglasses cord attached. This cord keeps the glasses in place while you wear them.

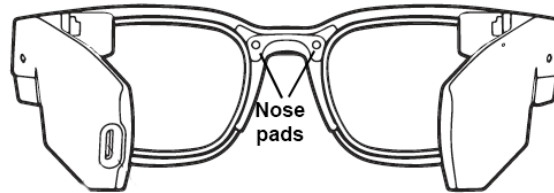


We recommend keeping the cord attached to the glasses. If you want to temporarily stop captioning — for instance, when using the restroom — loosen the cord to let the glasses rest around your neck.

Take a moment to locate the power button, underneath the right arm of the glasses, near the front. **Do not press yet.**

2. Extend the arms of the glasses. Locate the rubber bead on the cord. Holding the cord in one hand and the frames in the other, stretch the cord around the back of your head (like a mask) and position the glasses on the bridge of your nose. The bead should be at the back of your head, near the center.
3. Use the bead to adjust the fit of the glasses so they feel comfortably snug around your head. The arms of the frames don't need to rest directly on your ears like traditional eyeglasses. If you have a narrow head or a cochlear implant, the arms may not touch your ears. This is okay! The glasses cord will hold the glasses in place.

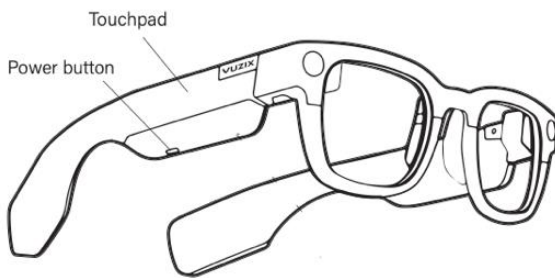
4. Take a few moments to feel how the glasses fit on the bridge of your nose. You can adjust nose pads for comfort.



If they feel too loose at the nose bridge, *gently* squeeze the nose pads until they feel more snug. If the nose pads feel too tight, *gently* spread apart the nose pads.

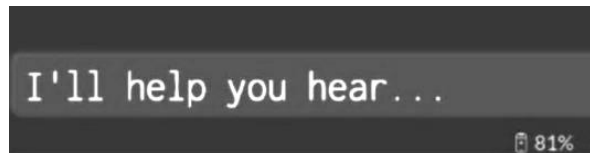
Powering Up Your XanderGlasses

The power button is located underneath the right arm of the glasses.



While wearing the glasses, press and hold the power button for about 5 seconds, until you see a “V” appear in the center of the screen. Xander-Glasses are powered by Vuzix Shield smart glasses.

In 20 to 30 seconds, you’ll see, “Hi, I’m Xander. I’ll help you hear.”



At that point, XanderGlasses will begin captioning automatically. XanderGlasses caption the speech of others and your own voice as you speak.

Customize Your Caption Display

You can customize elements of the display in two ways.

1. Download our app to your smartphone. Our free app provides the easiest ways for you to choose caption size, position, and brightness, and other options, including display language.



2. If you don't have a smartphone, you can use simple voice commands to customize caption size and position. See Appendix for directions on how to use voice commands.

Default caption position

Default setting
Position: Bottom | Size: Medium

You can change the size and place of the captions.

Please try different settings to find what is most comfortable for you.

This is how captions would appear with position "bottom" and size "medium."



The default setting for captions on XanderGlasses is **Size: Medium** and **Position: Bottom.**

The image gives an idea of where the captions will appear when you're looking at another person in the default setting.

Examples of Caption Display Positions

Position: Left | Size: Medium

Try different settings to find what is most comfortable for you.

This is how captions would appear with position "left" and size "medium."



Position: Top | Size: Small

You can change the size and place of the captions. Try different settings to find what is most comfortable for you.

This is how captions would appear with position "top" and size "small."



Position: Right | Size: Medium

Try different settings to find what is most comfortable for you.

This is how captions would appear with position "right" and size "medium."

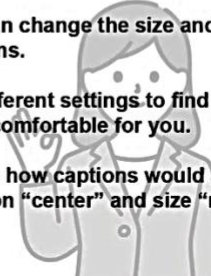


Position: Center | Size: Medium

You can change the size and place of the captions.

Try different settings to find what feels most comfortable for you.

This is how captions would appear with position "center" and size "medium."



Try different display settings to find the combination that works best for you.

Turning Off Your XanderGlasses

If you know that you're done using XanderGlasses, the fastest way to power down completely is to use the **voice command**.

1. Make sure that the glasses are not actively captioning so the glasses can tell that you are issuing a voice command.
2. Speaking clearly and in an authoritative voice, state the command "**Command Off.**"

To maximize battery life, Xander recommends that you power off your glasses when not in use.

To Temporarily “Sleep” and “Wake” Your Xander Captioning Glasses

When you want to take a temporary break from captioning, for instance, if you leave a conversation to go to the restroom, you can put your glasses into sleep mode.

To enter **sleep mode**, briefly click the power button (under the right arm) once. When you’re going into sleep mode you can also loosen the rubber bead of the eyeglasses cord so the glasses can rest around your neck.

To conserve battery life, your glasses will automatically enter a sleep mode when nobody is speaking for 5 minutes — the display will turn off. You can put your glasses into sleep mode anytime you like by briefly clicking the power button (under the right arm) once.

To WAKE your glasses, **briefly click** the power button once.

If your glasses are in sleep mode for 15 minutes, they will automatically power off. To turn them back on, simply press and hold the power button for 5 seconds—as if you were powering on for the first time.

NOTE: If the glasses don’t seem to turn on at all, the battery may be depleted. Please try charging and see “Troubleshooting.”

Optimizing with noisy situations, multiple speakers, and background noise

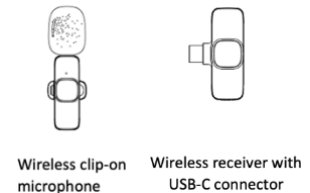
XanderGlasses have a built-in microphone array that hears almost as well as a person without hearing loss. In places with ample background noise, or in settings when one person speaks softly, the built-in microphones may not hear clearly. To provide extra help in those situations, we include a powerful wireless microphone system. This slightly reduces background noise and

provides the most accurate captions when it is clipped to the person speaking.

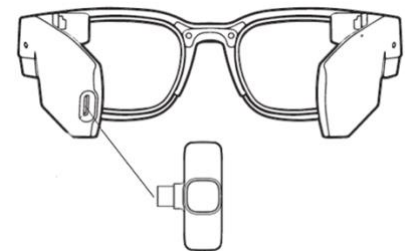
Using the wireless microphone

The microphone system has 2 small components:

- Wireless clip-on microphone
- Wireless receiver with USB-C connector



Insert the USB-C connector on the end of the receiver into the back of your XanderGlasses, into the USB-C port (where you charge the glasses).



When the receiver is connected successfully, you will see a small red light illuminate on one end of the receiver.

Pick up the microphone, press and hold the power button until the green light comes on (2-3 seconds).

Positioning the Microphone in Different Situations

- 1) Clip the microphone to the neckline or collar of your top. In situations with mild background noise, the mic may better pick up the voices of people near you and send captions to your XanderGlasses.
- 2) Ask the person you're conversing with to clip the microphone to their collar or shirt. This can be especially helpful if a person is speaking very softly in a noisy room or in a group setting.
- 3) If you are in a small group setting with multiple people speaking, set the microphone at the center of the group, or closest to the person who speaks softest.

- 4) If you are in a large auditorium listening to a talk or lecture, ask the speaker to wear the microphone. The wireless microphone system has a range of 65 feet.

Turning off the microphone

When you are done with the mic, power it off by holding the mic power button for 2-3 seconds until the green light turns off.

Charging the microphone

The microphone runs for up to 4 hours on a full charge. When the microphone light flashes red and green, the microphone needs to be charged. Please use the USB-C cable and charging brick included in your kit to charge the microphone. The microphone light will turn red when charging, and the light will turn off when charging is complete.

Regularly Check Your Xander Captioning Glasses Battery Level

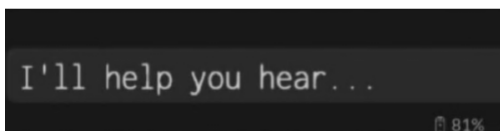
There are two ways to check the battery level of your glasses.

1. **While the glasses are plugged into the charger.**

Look into your glasses and briefly click the power button. You'll see a battery level indicator: one power bar or less indicates a low battery. A full stack of power bars indicates a full battery.



2. **While wearing the glasses during normal use**, look at the battery level indicator in the status bar at the bottom of the display. The indicator shows the charge level of the battery: 100% represents a full charge.



Battery indicator

Charging the battery from 0% to 100% may take up to 2 hours. Plan ahead and make sure the battery is fully charged 2 hours before you need your glasses.

Other Items in Your XanderGlasses Kit

Sunglasses clip-on

If you are wearing the glasses in bright sunshine or spaces with a glare, it may be harder to see the captions. The sunglass clip-ons can help in those situations.



To use the clip-ons, hold XanderGlasses in one hand, and press the sunglasses clip-ons onto the bridge of the frame. They will snap into place at the bridge only.

When you no longer need the sunglasses, remove the clip-ons by gently releasing the clip from the bridge of the frame.

Getting Used To “Listening” with Your New Xander Captioning Glasses

XanderGlasses are simple to use, but they are still new technology, so allow yourself some time to adjust. Even if you often use captioning on video, phone, or computer, seeing captions projected in front of you in real life is a different experience. Most people need time to adjust to seeing captions projected into the air.

The best way to get used to reading real-time captions is to practice. Give yourself time to discover how to use the captioning glasses in a way that works best for you.

Start Slow

Try the glasses at home or a place you feel comfortable, where things are familiar, and you don't feel pressured.

Start in quiet space and ask a friend or family member to talk to you. Or you can speak out loud to yourself to get used to seeing. Speaking to yourself is also a good way to try the voice commands to customize features, once you're comfortable using the glasses.

Practical Tips

When practicing with another person, ask them to talk to you about something simple, such as what they ate for lunch, the latest movie or TV show they saw, or what they did over the weekend. As they talk, you will get used to following their speech using the captions. The more you practice, the easier it gets to follow the captions.

If you are not accustomed to reading captions, at first, it may feel distracting to see words floating in front of you. We suggest that you try to focus on the person or people talking to you, instead of trying to read the captions word for word.

Only you, the person wearing the glasses, can see the captions and, because the captions are semi-transparent you will be able to see the people speaking to you and your surroundings as you read the captions.

Expand & Experiment

Once you can follow the captions easily, move to a normal conversation in which you are talking back and forth. When you feel comfortable using the glasses talking with one person, try using them at home with multiple friends or family members. It may take some practice to shift your focus in conversations that move quickly between multiple individuals.

Once you feel confident using XanderGlasses, we encourage you to use the voice commands to change the size and position of the captions. Experiment to learn what works best for you and what is easiest and feels most natural to read while engaging with others.

When you feel comfortable using the glasses in conversations with people you know, try the more demanding situations. XanderGlasses can be helpful at appointments, shopping,

restaurants, and social events. If you have hearing devices and the background noise is overwhelming, you may want to decrease the volume so that you don't get distracted by the level of background noise. **Please refer to the FAQs for additional tips.**

Troubleshooting

If the glasses don't seem to be working as expected, or you're seeing error messages in the display, please try the following steps.

1. Sleep/wake the glasses by briefly clicking the power button once to put the glasses to sleep, then wait a couple seconds, and click the power button again to wake the glasses up.
2. If you're unable to sleep/wake the glasses, or continue to experience problems, restart the glasses by holding the power button for 10 seconds, until the glasses display goes blank, followed by a green "V" in the center of the screen.
3. If the glasses don't seem to turn on at all, the battery may be depleted. Please charge the glasses using the included USB-C cable and power brick, as explained in the beginning of this guide.
4. If restarting the glasses still does not resolve your issue, please contact us at: <https://xander.tech/support> or support@xander.tech

Caring for your Xander Captioning Glasses

Cleaning

Treat your new captioning glasses as you would any quality eyewear. Use the Xander microfiber cloth provided, or any quality microfiber cloth, to clean the lenses as needed. *If required, you can dampen a microfiber cloth with standard eyeglass cleaner ONLY.*

Caution: Do not spray the lenses with cleaners. DO NOT USE solvents, household cleaners or paper towels to clean XanderGlasses. These will damage your glasses and void the warranty.

Conditions for use

Xander Captioning Glasses, powered by the Vuzix Shield, are not water resistant. *Avoid submerging or exposure to moisture. Excessive moisture will damage the device and void the warranty.*

You can wear the glasses indoors or outdoors, **but do not get the glasses wet and avoid extreme temperatures.** They will work in temperatures between 32° F (0° C) to 100° F (40°C).

Storing

Protect your XanderGlasses when you're not using them by keeping and transporting them in the protective case. Do not toss the glasses into a bag or purse as other objects can damage the device.

For optimal care and performance, store your XanderGlasses in a cool, dry place. They can survive storage at temperatures between 0°F (-20 C) and roughly 150° F (70 °C) and 75% Relative Humidity.

General Cautions

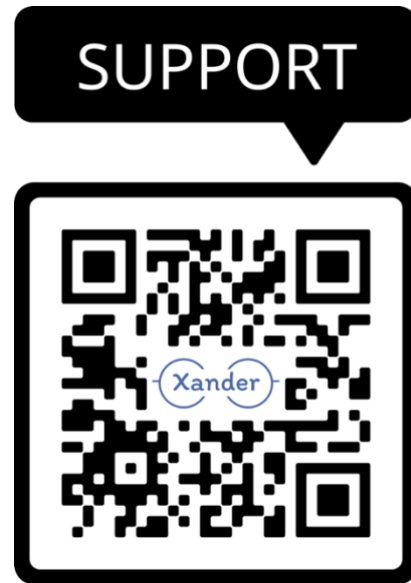
- Always perform a visual inspection of the glasses prior to use.
- Pitted or scratched lenses reduce vision and should be replaced.
- This product is safety-rated but is not unbreakable.
- Do not modify or alter the product.
- No parts of the XanderGlasses that touch the wearer are made of materials which are known to cause any skin irritation. But to those who are easily allergic, there might be allergic reactions. If you experience any irritation stop wearing the glasses.

Please see the safety and warranty guide for more information.

Support

For further documentation and support, scan the QR code or visit <https://xander.tech/support/>

XanderGlasses are covered under warranty. For more information about Xander, please visit our website: <https://xander.tech>



Warranty Overview

XanderGlasses are powered by Vuzix Shield glasses and are covered under the terms of the Vuzix Hardware Product Limited Warranty. This warrants that XanderGlasses shall be free from defects in material and workmanship for one year from the date of receiving the product after purchase from Xander.

The Limited Warranty does not cover problems or damage resulting from (1) power surge, misuse, abuse, negligence, accident, wear and tear, mishandling, misapplication, or other causes unrelated to defects in the hardware (2) unauthorized repair, modification, tampering or disassembly; (3) improper operation or maintenance not in accordance with product instructions (4) or connection to improper voltage supply.

Please refer to the warranty for full terms.

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Appendix A. Using voice commands to customize caption size and position

Using our phone app is the easiest way to customize the caption display, but you can also use simple voice commands to adjust the position and size of the captions.

Changing the caption size

You can view captions in three sizes: Small, Medium, and Large. The size you choose affects the number of lines of captions that display at once. If you choose “small,” the text will display in a smaller font, and you’ll see more text displayed at once. If you choose the “large” text size, words will appear bigger and fewer lines of text will be visible at one time.

To change the size and display of the captions, you may use voice commands. Once firmly spoken, the command tells the glasses what size text to display.

To use voice commands for size:

1. Make sure that the glasses are not actively captioning. Wait until there’s a pause in the conversation so the glasses can tell that you are issuing a command.
2. Speaking clearly and in an authoritative voice, state the command that matches the size of captions you want:
 - “Command Small”
 - “Command Medium”
 - “Command Large”

Changing the caption position

The glasses project the captions in front of you at about arm’s length and the default setting for caption position is Bottom and text size is Medium.

You can use voice commands to change the position of the captions. There are 5 possible positions for the captions to appear within the caption box: top, bottom (the default), left, right or center.

To use voice commands for position:

1. Make sure that the glasses are not actively captioning. Wait until there's a pause in the conversation so the glasses can differentiate the command from the conversation.
2. Speaking clearly and in an authoritative voice, state the command that matches where you want the captions to display.
 - "Command Top"
 - "Command Bottom"
 - "Command Left"
 - "Command Right"
 - "Command Center"

Try different combinations of position and size to find what is most comfortable for you. You may discover that you prefer seeing the captions appear in different positions in different situations.

About Xander

Xander is a small startup on a mission to help people with hearing and cognition challenges to better understand speech. We leverage the sense of sight to augment sound and bring people together. Our glasses are designed and manufactured in the U.S.



Xander donates 1% of revenue from every sale to carbon removal to help fight climate change.

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