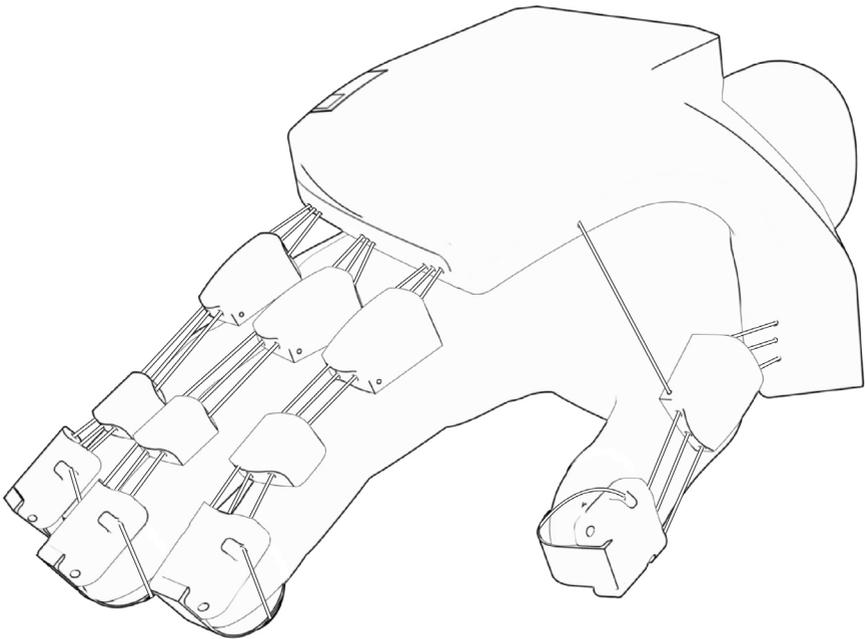


GETTING STARTED GUIDE

SENSEGLOVE NOVA



SENSEGLOVE

EU – Declaration of Conformity

SenseGlove declares that the SenseGlove Nova complies with the essential requirements and other relevant provisions of Directive 2014/30/EU. A copy of the Declaration of conformity is available on request.



This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



SENSEGLOVE

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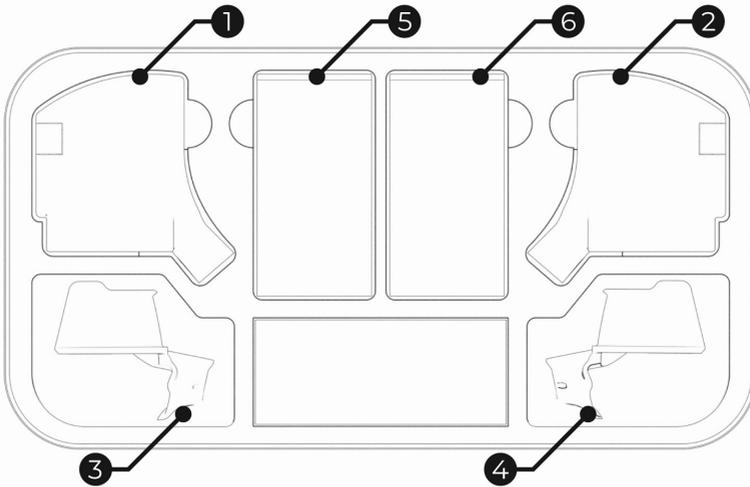
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SENSEGLOVE

WHAT'S IN THE BOX?

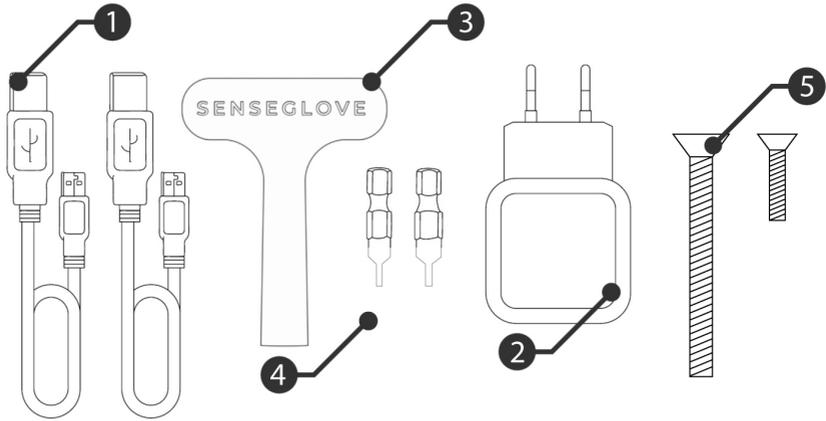
Below you find all items included in the SenseGlove Nova kit. With the use of these items a proper functioning of the Nova is guaranteed. If spare parts are needed please contact us.



- 1 Nova left
- 2 Nova right
- 3 Tracker mount left
- 4 Tracker mount right
- 5 Accessory section
- 6 SoftGlove section



SENSEGLOVE



The following items can be found in the accessory slot of the packaging.

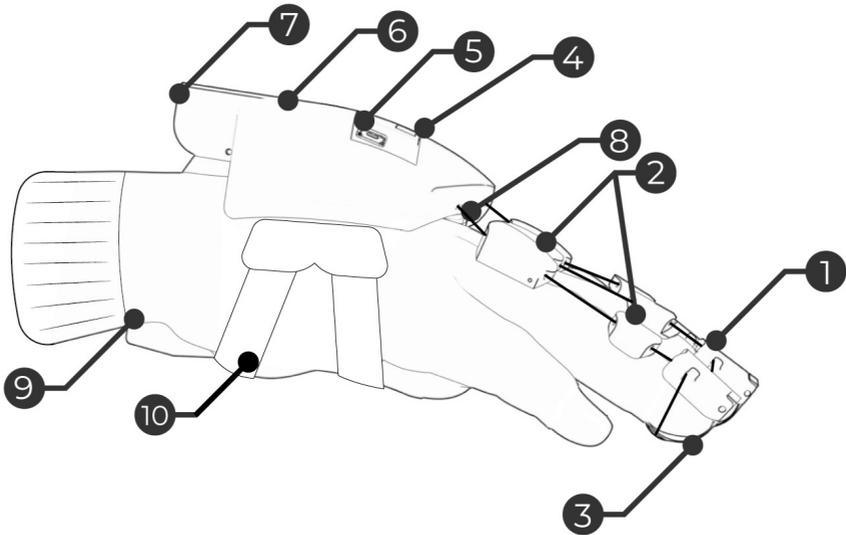
- 1 Charging cables (USB A - USB C)
- 2 Dual USB charger
- 3 Screwdriver
- 4 Screwdriver tips
- 5 Bolts for trackermounts



SENSEGLOVE

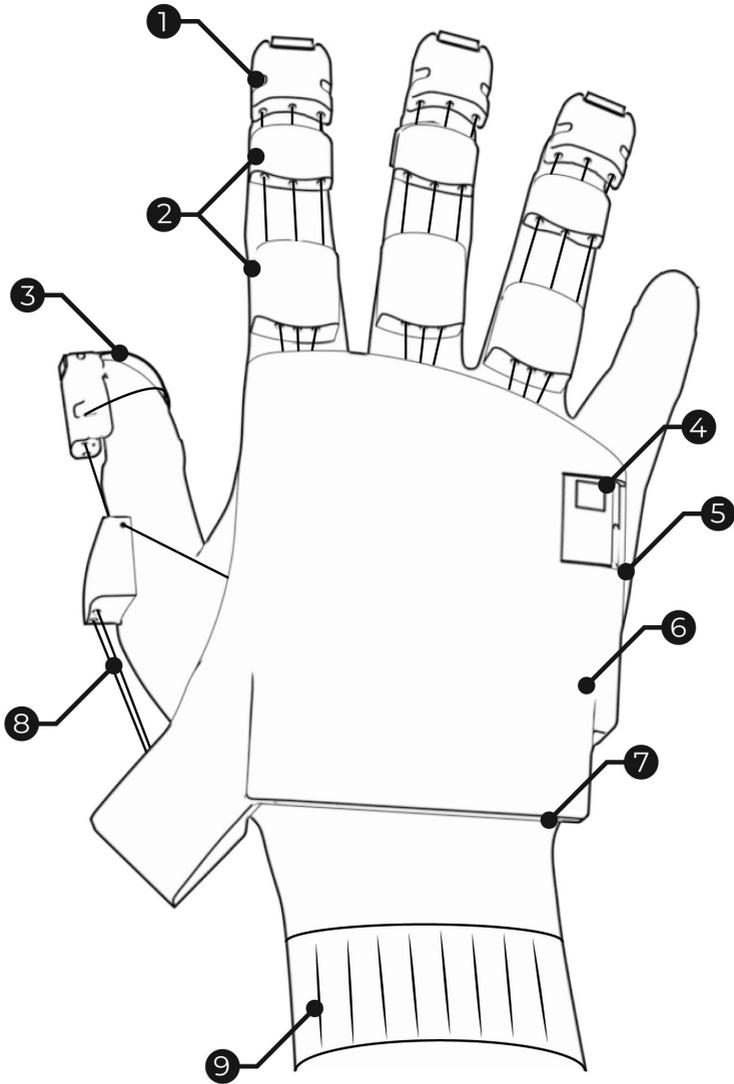
GLOSSARY

Below are some common terminologies used for describing the specific parts of the Nova within this guide.



- 1 Thimble
- 2 Cable guide
- 3 Finger tab
- 4 Power button
- 5 Charging port
- 6 Hub
- 7 LED indicator
- 8 Force feedback cable
- 9 Softglove
- 10 Palm strap





SENSEGLOVE

WIRELESS PAIRING

Turn on the device by pressing the power button until the LED indicator turns on.

Windows 10:

Go to Settings > Devices > Bluetooth & other devices > Add Bluetooth or other device > Bluetooth. Select NOVA-XXXX (where XXXX is an uniquely generated ID for your Nova) in the list of nearby devices. The L or R at the end indicates whether the glove is left or right -handed

After selecting NOVA-XXXX a pop-up window will appear, asking whether you want to pair the device. Press “connect”. Your device is now paired and trusted.

If the Bluetooth Menu indicates that your device is ‘Paired’, you are good to go. It’s status will only change to ‘Connected’ when the glove is used in a simulation.

PICO NEO 2 & 3:

Go to Settings > Bluetooth. Select NOVA-XXXX (where XXXX is an uniquely generated ID for your Nova) from the list of “other devices” and click on “Pair Device”. It should now appear on top of the list under “paired devices”.



SENSEGLOVE

Oculus Quest 2:

Go to Settings > Devices > Bluetooth > Pair. Click on “Pair New Device”. Select NOVA-XXXX (where XXXX is an unique ID for your Nova) in the list of nearby devices. A pop-up will appear. Select “Confirm” to complete the pairing process. The Nova should now appear under “Previously Connected Devices” - which means it is paired and ready to use.

Vive Focus 3:

Go to Settings > Connectivity > Bluetooth. Select “Pair New Device” Select NOVA-XXXX (where XXXX is an unique ID for your nova) in the list of nearby devices. A pop-up will appear. Select “Confirm” to complete the pairing process. The Nova should now show up in your Bluetooth Menu, which means it is paired and ready to go. Note: You will want to also pair your Vive Wrist Trackers in their usual manner. When you do, please indicate that you will not be using them for hand tracking.

General:

If you do not see a device called NOVA-XXXX appear in your list of devices, it is either already paired or turned off. You only have to perform this pairing process once. When using the Nova again, your PC or headset and the Nova will remain paired, even if the devices are rebooted. Depending on your HMD of choice, they can be found in a section often called “Previous devices”.

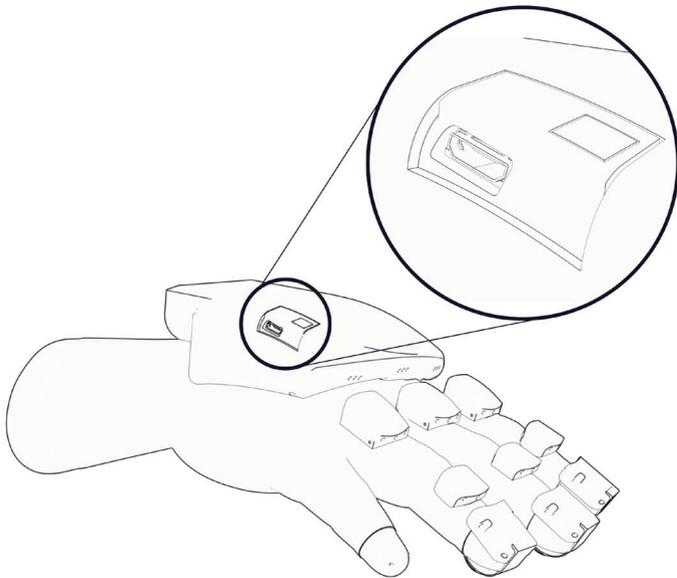


SENSEGLOVE

CHARGING

For first use, it is recommended to charge your Nova fully. Make sure to use the included USB-C cable to charge your device. Plug the USB cable into the included charger and then plug the charger into a power outlet. It is possible to charge the Nova with the USB port of your computer, but it will charge slower than with the included charger.

When using the device for the first time, make sure to charge it with the included charger and USB-C cable. After its first charging cycle, the Nova can be switched on and is ready to pair with your device.



SENSEGLOVE

LED INDICATOR

On the backside of the Nova, an LED indicator communicates the status of the device. The following signals can be shown:

Blue - The device is switched on, and is paired wirelessly to your device.

Blinking Blue – The device is switched on, and is not paired wirelessly to your device.

Red – The battery level of your device is low. Charging is recommended.

Blinking Green - The battery is currently being charged.

Green - The battery is fully charged.

VIBRATION INDICATORS

The device communicates various states through vibrations in the hub. It has distinctive signals when turning on the device, when connecting to SenseCom, and when the device is successfully turned off.



SOFTGLOVES

The SoftGlove is the textile base glove on which the hardware is mounted.

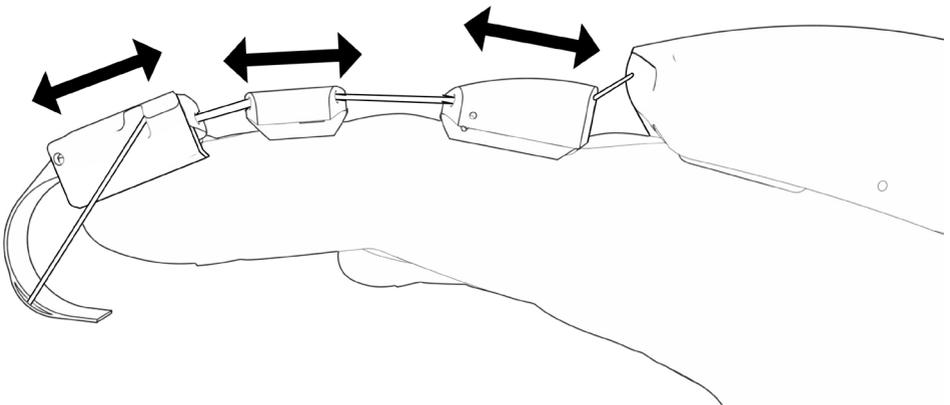
SoftGloves are available in three different sizes; Small (S), Medium (M), and Large (L). For the best product experience, using the best fitting glove is crucial. Additional information on sizes and order information for additional SoftGloves can be found on the SenseGlove website.



SENSEGLOVE

INSTALLING THE SOFTGLOVE

The SoftGlove is detachable from the rest of the hardware by gently sliding the thimbles and cable guides back and forth. The same applies to the attachment of the SoftGlove to the hub of the Nova, which can be detached by pulling the SoftGlove away from the hub. Once detached, the SoftGlove can be replaced. To attach the SoftGlove, simply reverse this process. The SoftGlove is attached properly when no gaps are visible and the parts are correctly aligned. Make sure the force feedback cables are not clamped between the thimble and the SoftGlove, but run freely along the side of the fingertip.



SENSEGLOVE

WEARING THE NOVA

DONNING

The Nova is best donned on the hand as described below. In addition, the schematic shows a properly donned Nova.

Step 1: Place the Nova upside down on a stable surface, e.g., a desk.

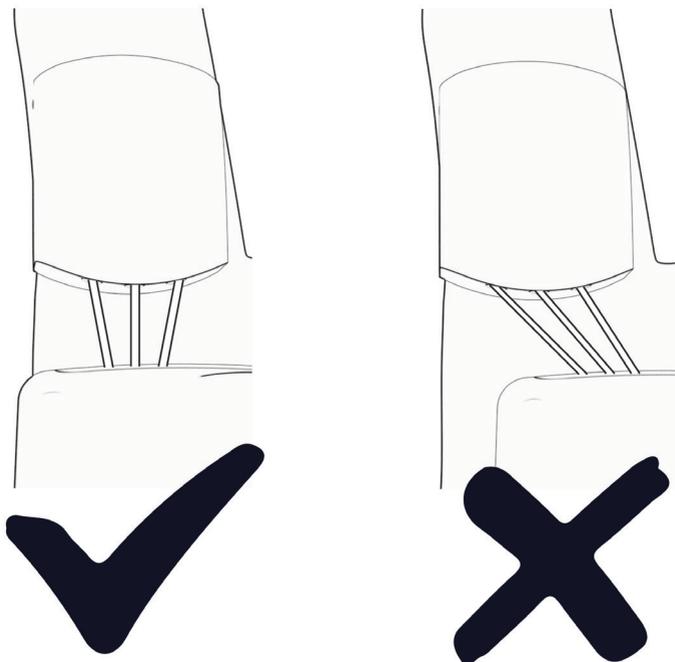
Step 2: Insert the corresponding hand into the opening of the glove while pulling on the opening with the other hand.

Step 3: Tighten the straps on the palm of the hand so that the hub is comfortably and firmly secured. Make sure the hub is oriented so that the cables running from the hub to the fingers follow a straight line as much as possible (as illustrated on the right). In addition, the hub should not extend over the knuckles towards the fingers.

Step 4: Make sure that the finger tabs on the thimbles are positioned correctly on the fingerbeds, and that the force feedback cables are not obstructed or interfered with in any way.



SENSEGLOVE



DOFFING

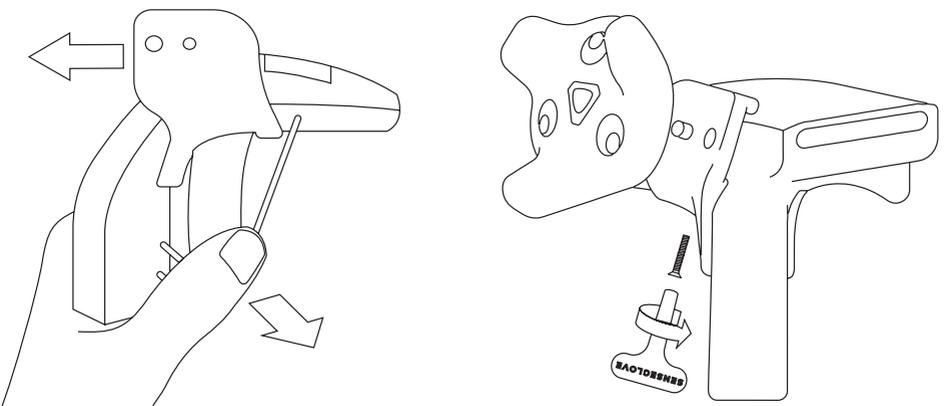
The Nova is best doffed by reversing the steps for donning. Make sure to first untighten the palm straps before pulling the hand out of the SoftGlove. This can be done by tilting the buckles towards the thumb side of the hand.



SENSEGLOVE

MOUNTING TRACKERS & CONTROLLERS

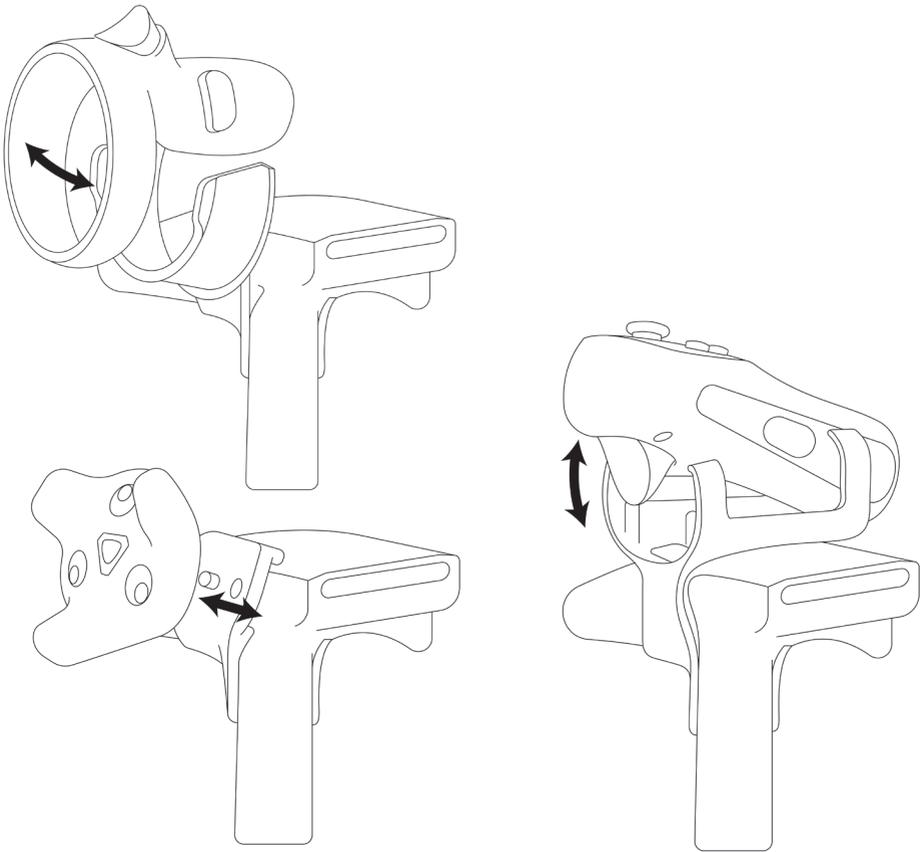
Trackers and controllers can be used for positional tracking of the Nova. Each type of tracker/controller requires a specific type of tracker mount. All tracker mounts can be attached to the Nova in the same way. On the thumb side of the Nova, pull aside any feedback cables, and slide the mount over the palm strap. On the bottom of the thumb side of the Nova, two bolts included with your set of Nova gloves can be used to attach the tracker mount to the hub. The small bolt can be inserted at the hole towards the side of the hub, whereas the larger bolt is inserted in the thumb area, more towards the backside of the glove. A small screwdriver with appropriate tips is included with your set of Nova gloves. Keep in mind that there are dedicated trackers for the left- and right-handed glove.



SENSEGLOVE

Given that each tracker is different, each tracker is fastened in its tracker mount in a different way. The images below demonstrate how each controller or tracker is fastened in the mount.

Caution! While attaching the tracker mount, make sure that the cable exiting the side of the hub is not stuck between the enclosure and the mount. If not, the product will most likely malfunction and can eventually be damaged.



SOFTGLOVE CARE

The Softglove contains anti-bacterial and anti-odor yarns. This means the Softglove does not require care or rinsing after each use.

If necessary, the Softglove can be washed using typical handwash procedures. Carefully remove the Softglove from the SenseGlove Nova before starting the washing process. Pretreat the Softglove if needed for stains with a delicate textile detergent. Submerge the item in cold or tepid water, use your hands to agitate the water and detergent. Soak the Softglove in the water for a maximum amount of 30 minutes. Use tepid/room temperature or cold water to rinse the Softglove until the soapy water is gone and press out the water. To dry the Softglove as quickly as possible, place the item on top of a towel, making sure it's flat and in its original shape then roll up the item in the towel, or hang the Softglove in a dry environment.

Before the Softglove can be attached to the SenseGlove Nova, make sure the textile is completely dry. Using a wet or moist Softglove could lead to damage or injuries.

We recommend replacing the Softglove after 5 washing cycles. Excessive washing cycles can negatively impact product performance and safety. Do not use the SoftGlove when it shows wear and/or frays.



SENSEGLOVE

YOUR FIRST PROJECT

Up-to-date lists of all available APIs can be found at:

<https://www.senseglove.com/developer/>

Documentation for SenseGlove devices and APIs can be found at:

docs.senseglove.com

When using the SenseGlove APIs, a familiarity with the relevant development platforms, such as the Unity- and Unreal Engines, is expected.

SENSECOM

When developing on Desktop, you will require a program called SenseCom to connect to your gloves. It is usually bundled with your API, but it can also be found at:

<https://github.com/Adjuvo/SenseCom>.

While this program is active, you can interface with your glove(s) from any number of programs. A build for standalone headsets will manage the glove connections internally, though you can use an .apk version of SenseCom to verify your glove connections on devices such as the Pico Neo, or the Oculus Quest.



SENSEGLOVE

BEFORE YOU BEGIN

Make sure the Nova is paired with your preferred device. Download, install and run SenseCom which is downloaded using the relevant API link (shown below). When your gloves show up as blue icons within the SenseCom UI, you are ready to begin developing.

You can download the latest version(s) of the various SenseGlove APIs from:

<https://github.com/Adjuvo/>.



SENSEGLOVE

GENERAL SAFETY PRESCRIPTIONS

Please respect the following safety precautions:

- Do not drop, disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate, or paint the SenseGlove Nova and/or its accessories.
- Do not expose or submerge the product in liquid substances.
- Do not put the product or its components in nose or mouth.
- Do not use the product when it is (partly) moist or wet.
- Do not touch the force feedback cables during use.
- Do not insert foreign objects or connectors into any opening on the product.
- Do not dry the product with an external heat source such as a microwave oven or hair dryer.
- Only use the product for spatial computing.
- Do not use the product when damaged.
- Do not use the product in an explosive atmosphere.
- The SenseGlove Nova should not be heated to more than 40 degrees Celsius and should be shaded from direct sunlight.
- The SenseGlove Nova contains a Li-Ion battery and should be used with sufficient precautions.
- Do not leave the Nova unattended while charging.



SENSEGLOVE

- While wearing the device, do not lift objects that are not dummy objects or VR controllers.
- While wearing the device, do not hold metal/ conductive objects.
- Do not leave product lying around in an environment where children may have access to it.
- Do not give the product to children to play with.
- Do not leave the product turned on unattended and turn the product off after use.
- Only use the the product at room temperature (around 21–22 °C).
- Before using the product, make sure there is enough space in your enviroment to manouvre freely without bumping into any objects, people or animals.
- The product should ony be used in indoor environments.
- The product should not be exposed to strong magnetic fields.
- Do not use the product in dirty or extremely dusty environments.
- When using the product, make sure is used with a SoftGlove that fits the user’s hands.
- When unused, store the product it its original packaging.
- When using the Nova with hygienic gloves, make sure to use gloves with low surface friction.
- When storing the product, make sure to remove the tracker/controller mounts.



CONTACT US

If you experience problems or if you have questions, please contact us through support@senseglove.com.

SPECIFICATIONS

All details are given here:
<http://bit.ly/3bWIPwP>

WARRANTY

The Nova has a limited 1 year warranty. Additional details are given here:
<http://bit.ly/3rZoY4f>

DISPOSAL

When disposing your set of Novas, make sure to get them collected at a local collection point for recycling of electrical appliances and equipment.



SENSEGLOVE



SENSEGLOVE