

NUADA Glove Manual

Version 1.0.0



Table of Contents

Proper Use	2
For Your Safety	3
NUADA Glove	4
The NUADA Glove Manual	5
Putting on the Nuada Glove	6
Initial Conditions	6
Putting On Glove	6
Turning On (and Turning Off)	7
Manual Mode of the Nuada Glove	8
Functioning	8
Lock	8
Unlock	9
Automatic Mode of the Nuada Glove	9
Functioning	9
Lock	10
Unlock	10
Configurations Menus	11
Options Bar	11
Configurations of the Nuada Glove	11
Configurations Panel	14
Configuration of the Date and Time	15
Configuration of the Connectivity	15
Troubleshooting - FAQs	16
Technical Data	17
NUADA contact details / Legal information	18

Proper Use

The NUADA Glove has been designed and built for individual use. It should only be worn as a Glove and used to support maintaining grasps. Use for any other purpose will be deemed improper and NUADA Lda cannot accept any responsibility for the consequences of improper use.

Before using the NUADA glove, always carefully read and comply with all these instructions.

For Your Safety



Please read and note carefully the following important safety information.

By doing this, you can avoid harmful events:

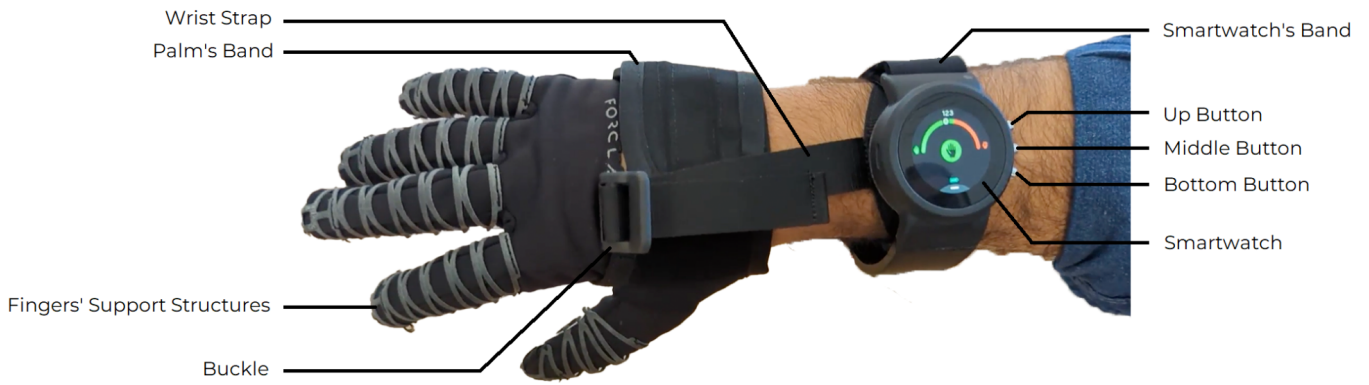
- Do not put on the Glove when it is turned on. Make sure it is properly turned off.
- Turn the Glove on only after properly putting it on your hand.
- Switch the Glove off before removing it.
- Do not unlock individual sliders without being in the proper configuration menu. See instructions below.
- Be careful to ensure that the object you are about to disengage does not fall and harm you or others when you switch to the 'unlocking' state.
- Place the Glove out of the reach of children.
- Protect the smartwatch and supporting system from wet environments.
- Only connect the smartwatch to the power supply to charge. Do not power supply while using the Glove.

People, including children, who

- do not have the physical, sensory or mental capabilities to use the Glove or
- are inexperienced or lack knowledge in how to use the Glove safely

must be supervised by a responsible person when using it, or must be instructed in how to use it correctly.

NUADA Glove



The NUADA Glove Manual

This is the manual for your NUADA Glove. The information contained in this manual will help you to familiarize yourself with your NUADA Glove safely and quickly and teach you the full range of capabilities it offers.

Chapter 1, 'Putting on the Nuada Glove', states the initial conditions before putting on glove, and explains step-by-step how to put on and turn on the Nuada glove.

The next two chapters are important for you to read as they describe the normal functioning of the NUADA Glove, which has two modes.

Chapter 2, 'Manual Mode of the Nuada Glove' explains a normal usage of the glove in the manual mode, where you control the locking mechanism with clicks on the smartwatch.

Chapter 3, 'Automatic Mode of the Nuada Glove' explains a normal usage of the glove in the automatic mode where you control the locking mechanism with your wrist.

Chapter 4 is intended to help you configure the NUADA Glove as you find best.

With NUADA Glove, you will recover hand function in your hands, as you will be able to grab and hold objects with super-human firmness and stability.

1. Putting on the Nuada Glove

Initial Conditions

Before putting on the NUADA glove, verify the following:



- **Glove is turned off.**

If the screen of the smartwatch is off, touch it to make sure it is turned off. If the screen is on, press the middle button on the side for 5 seconds until the screen turns off.

- **Emergency lever is turned off.**

Make sure the emergency lever is aligned with the box

- **Straighten the fingers.**

Pull the fingers of the glove completely until they are fully extended. You will hear the support system clicking.

Putting On Glove

Start by putting on the fingers.

You can put on the fingers through the openings of the glove, and adjust the top parts at the end



Lace the band of the palm firmly.

Make sure the thumb is correctly placed through the hole of the band.





Lace the band of the smartwatch, but with some slack.
It should have some slack so that the band can freely move along the forearm when fully extending and flexing the wrist.



(Optional) Put on the Wrist Strap
Prior to putting on the glove, insert the loop on the arm. Then, put on the glove (follow the previous steps).

- With the Loop part, circle the box



- With the Strap part, route it below the smartwatch and buckle up on the back of the hand
Fasten the strap loosely so that you can still fully flex the wrist

Turning On (and Turning Off)

Press the middle button of the smartwatch for five 5 seconds to turn on the NUADA glove.

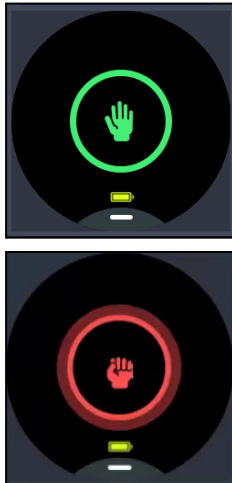
Once finished using, do the same to turn it off.



2. Manual Mode of the Nuada Glove

Functioning

The icon on the center of the smartwatch indicates the state of the glove



- **green**, the glove is in a **'unlocking'** state where you can freely move your fingers as a normal glove.
- **red**, the glove is in a **'locking'** state where your fingers are unable to extend.

In the manual mode, you switch the state by clicking the icon.

Lock

A normal usage starts in the **'unlocking'** state

Click on the screen of the smartwatch to switch to the **'locking'** state.



Wrap your fingers around an object, and in this state you can't open the hand.



Make the grip tighter, by flicking the wrist down and up

- Moving down will shrink the artificial tendons of the fingers.
- Moving up, back in a straightforward position, will make the grip tighter.
- Once or twice is usually enough to make your grip steady, but you can do it as many times as you desire as long as it remains comfortable.

Unlock



Click on the screen of the smartwatch in order to switch the glove back to the **'unlocking'** state.

You can now freely open your fingers and unleash the object.

3. Automatic Mode of the Nuada Glove

Functioning

Switching between the **'locking'** and **'unlocking'** states is controlled by the wrist movement.

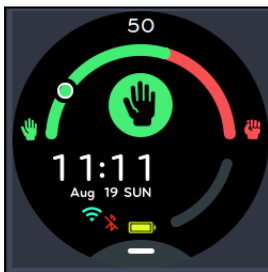


Switch to the **'locking'** state by extending your wrist upwards past a certain threshold for a certain time period



Switch to the **'unlocking'** state by flexing your wrist downwards past a certain threshold for a certain time period.

Thresholds and time periods are configurable. See below.



The state of the glove is indicated in the smartwatch:

- icon in the center of the smartwatch indicates the state of the locking mechanism.
- top arch indicates the state of the wrist-controlled mechanism:
 - circle indicates the current value of the wrist, which is also in textual format above the arch.
 - green and red segments of the arch are the areas that correspond to the **'unlocking'** and **'locking'**

states, respectively. Where the segments touch, is the threshold required to switch to the opposite state.

If you extend your wrist upwards, the value will increase. If you flex your wrist downwards, the value will decrease.

Lock



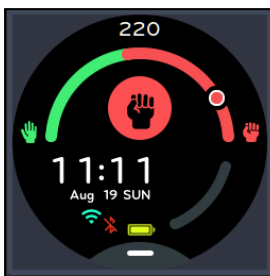
If the center icon is green, and the wrist value is on the green segment of the arch, then you are in the **'unlocking'** area in the **'unlocking'** state.



Switch to the **'locking'** state by extending your wrist upwards, so that the circle in your the top arch goes to the 'red' segment of the arch (ie. the wrist value goes past the threshold).

Once you are in that zone for a certain time period, the glove will switch to **'locking'** state.

Unlock



If the center icon is red and the wrist value is on the red segment of the top arch, then you are in the **'locking'** area in the **'locking'** state.



Switch to the **'unlocking'** state by flexing your wrist downwards so that the wrist circle goes to the 'green' segment of the arch.

Once you are in that zone for a certain time period, the glove will switch to **'unlocking'** state.

4. Configurations Menus

Options Bar



Below the main screen, there is a horizontal bar. By clicking it a configuration menu pop-us with 5 options:

- (1) configuration of the glove
- (2) configuration of the sliders for the fingers
- (3) configuration of the date time
- (4) configuration of the connectivity
- (5) information about the glove.



The navigation in the configuration screens is intuitive. You click on the items you want, and click on the upper part of the screen to move backwards to the previous screen.

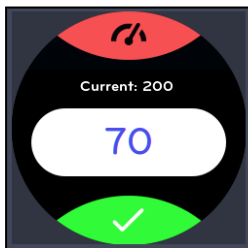
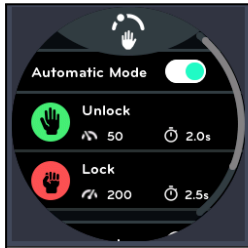
4.1. Configurations of the Nuada Glove

Configurations Panel



The first option of the options menu is for the configuration of the NUADA Glove. There are 4 options in this configuration screen.

Automatic Mode



The 'Automatic Mode' switcher configures the control mode of the locking mechanism.

If switched off, the manual mode is activated. You control the locking mechanism with clicks on the smartwatch.

If switched on, the automatic mode is activated. You control the locking mechanism with the wrist. Additionally, two list items popup below, which indicate the threshold value and the time period of each state.

To change the values of the **'locking'** state, you click on the respective item. You will be presented with a list with two items.

To change the 'threshold' you click on the first item, and a screen displays the current value of the wrist position. Place your wrist on the threshold position you want and confirm on the bottom icon.

Suggestion: select a threshold value close to the maximum extension of the wrist. Extend your wrist to the max, then relax slightly, and confirm.

To change the 'time period', click on the second item. You are directed to a screen with a vertical spinner. Select the time period, and confirm on the bottom icon.

This will be the time period that you need to be past the threshold value so that the state of the Glove can be switched back to the 'unlocking' state.

To change the values of the **'unlocking'** system, the logic is very similar.

Suggestion: select a threshold value close to the maximum flexion. Flex your wrist to the max, then relax slightly, and confirm.

Minimal Mode



The 'Minimal Mode' switcher configures the information displayed on the main screen.

If switched on, detailed information regarding the time, date and an arch for the battery life are displayed.



If switched off, the main screen only displays the critical information regarding the locking mechanism.

Screen Time



The 'Screen Time' option configures the amount of time that the screen of the smartwatch is on until going to sleep. You can choose with a vertical spinner.

Even though the screen is off, the locking mechanism is still working

Flip Screen



The 'Flip Screen' option configures the display's direction. The changes will be visible on the next restart. You must turn off and back on the glove by clicking the middle button.

4.2. Configuration of the Sliders

Configuration Screen



The second option of the options menu is for the configuration of the individual sliders of the NUADA Glove.

Click on this option and the Glove will arrive at a state where you can turn on or off the locking mechanism for fingers. A sequence of illustrative images are shown in the smartwatch.

Configure the sliders by sliding up to turn on or sliding down to turn off. You can find 5 sliders in the bottom of the supporting system, each slider for each finger..

For those fingers whose slider is turned off, they are free from the locking mechanism. In the **'locking'** state, only the fingers whose slider is turned on are locked, thus you will not be able to extend them.

Click on the screen of the smartwatch once the sliders are properly configured, to exit this configuration stage.

Example: by turning off the slider of the index finger, you can have the fingers locked around an object, and have the index finger free to handle a trigger.



4.3. Configuration of the Date and Time

Date and Time

The third option of the options menu is for the configuration of date and time. You can adjust these parameters with rollers.



4.4. Configuration of the Connectivity

Connectivity

The fourth option of the options menu is for the configuration of connectivity.

You can enable Wi-Fi connectivity with switchers. You will need connectivity when updating the software that is running on the smartwatch.



4.5. Information

Information Panel

The fifth option of the options menu displays information regarding the NUADA Glove, such as the version and licenses.

Troubleshooting - FAQs

I am having difficulties fitting the fingers in the glove – Verify if the initial conditions are correct: the emergency lever is aligned with the box, the Nuada Glove is turned off, and the fingers are fully stretched/straightened.

The Nuada Glove is not locking, even if the locking state is on – You may have turned on the emergency lever. It should be turned off, aligned with the box.

While changing the settings, the screen of the smartwatch froze – Restart the system, by turning off and then back on. You may have to press the middle button for 30 seconds for a hard restart.

When in the automatic mode, the locking states often switch involuntarily – Increase the time period in the configurations menu. Another option is to maximize threshold values.

The Nuada Glove is not turning on – The battery of the system may be gone. Charge it for 30 minutes and try again.

Technical Data

Weight	500g
Box Dimensions (W x H x L)	4 x 2 x 2 cm
Battery Voltage	3.7V
Battery Current	1500mAh
Maximum Support Capacity	40 kg

NUADA contact details / Legal information

NUADA Lda.
Porto, Portugal

@ Contact information is available on the company website at www.nuada.pt

Technical Changes We reserve the right to make technical changes. The illustrations used in the Nuada Glove Manual show the Nuada Glove for the right hand. Your glove might incorporate minor changes and for the opposite hand.

Feedback Your opinion is important to us!
Use the contact link at www.nuada.pt

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