HEUSINKVELD®

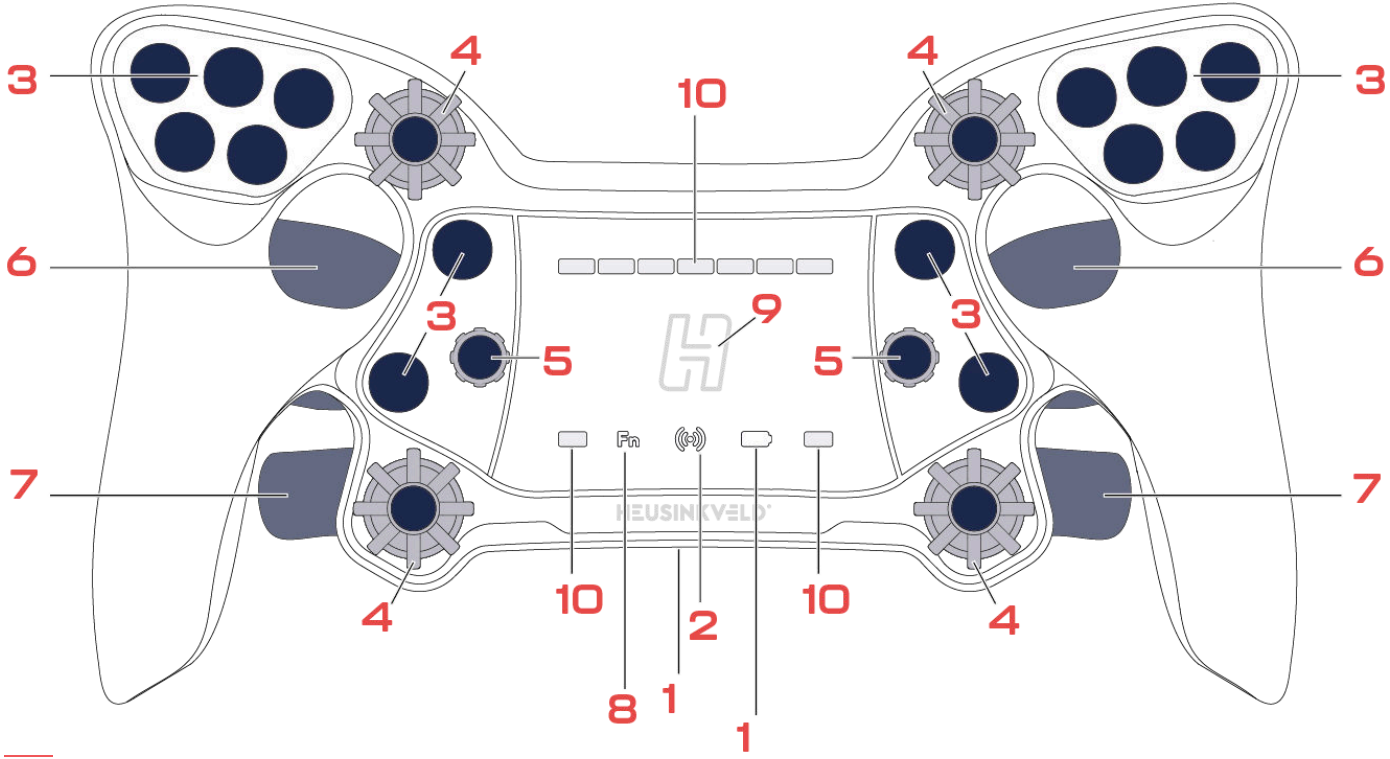
Steering Wheel

One

PRODUCT MANUAL

Congratulations on acquiring the HEUSINKVELD® One steering wheel.

We hope you will enjoy this top-of-the-line racing simulator product for many years to come.



1. Table of contents

1. Introduction

1.1 General product description and intended use

The Heusinkveld® One steering wheel can be connected to a wheelbase for use in a pc based driving simulator. The product is suitable for use in a simulator only. The product is not suitable for use on (public) roads, on a test track, or as part of any vehicle.

1.2 Expected and faulty operation

In the default configuration, if the steering wheel is charged, if the dongle inserted in the pc and paired to the steering wheel, activating the steering wheel buttons should give output to the pc.

If this is not the case, please check the connection/pairing status in our SmartControl software. Re-pair if necessary.

IMPORTANT: A powered USB cable must be connected to the wheel before first use in order to activate the wheel.

1.3 Safety precautions

No specific safety equipment is required to use this product. The product must be mounted rigidly to the wheelbase of your simulator. Please refer to the safety instruction applicable to your wheelbase to further ensure safe operation.

1.4 Charging

The steering wheel requires a USB-C charging cable in order to charge the battery. We recommend using the supplied cable (which also has a data connection, required for any future firmware updates).

On a full charge, with telemetry LEDs active while driving, the usage time is around 60 hours. The exact usage time does depend on the use frequency and light intensity of the LEDs.

With the telemetry and logo LEDs disabled, you should be able to drive for months without recharging.

1.5 Battery indicator

When the battery charge drops below 10%, a red battery indicator will light up on your wheel.
If it drops below 5%, the indicator will start to blink.

So, no worries. Even with a red battery indicator you still have a few hours of battery life left to finish your race.

When charging, the battery indicator will blink white. When fully charged, it will be lit solidly green.

Please note that the battery indicator is self learning. It may require a few charge and discharge cycles to give accurate results.

The recharge time depends on the power of your USB port:

- 5V 0,5 amp: appr. 5 hours.
- 5V 1,45 amp: appr. 1 hour and 45 minutes.

WARNING: DO NOT USE THE WHEEL WHILE THE CABLE IS PLUGGED IN.

Doing so could damage the cable or the wheel side connector. For this reason all functions of the wheel will be disabled while charging.

1.5 Maintenance

Your Heusinkveld® One steering wheel requires little to no maintenance. It can be cleaned using a damp cloth without cleaning agents.

The use of dry cloths is not recommended due to their abrasive nature.

1.6 Product dimensions

- WxHxD: 280x163x95mm.
- Approximate wheel diameter at position of hands: 270mm.
- Weight: 1024gr.

2. Mounting your One steering wheel

The Heusinkveld® One steering wheel has an integrated 50,8mm threaded hub (with 6 equally spaced inserts, 60 degree angle). It is compatible with quick release systems which can be bolted directly onto a 50,8mm threaded hub.

If your quick release cannot be bolted onto a 50,8mm threaded hub, or if you want to use a 70mm quick release system, you may want to acquire the optional Heusinkveld® Steering wheel Adapter (HE-SW-ADAPT).

Use the included M5 bolts to secure the quick release or adapter to the back of the wheel.
Always check the correct alignment of your quick release before tightening the bolts.

There is no need to overtighten any bolts. The maximum torque for M5 stainless steel bolts is 4,5Nm.

3. Connecting your One steering wheel

3.1 USB-A wireless dongle

The Heusinkveld® One steering wheel comes with a USB-A wireless dongle, featuring our proprietary low-latency wireless protocol. Insert it to any USB-A port in your pc. Drivers are not required.

When you unpack the wheel it is in transport mode. It must be activated before first use. Insert a powered USB-C cable in the wheel to activate the wheel. The USB-C port is at the bottom of the wheel.

The dongle and wheel are pre-paired. Press any button on the wheel to establish the connection.

3.2 Connection status LED indicator

The connection status LED on the wheel blinks purple when it is establishing the connection. Once the connection is established it will blink green for a few seconds.

Before racing, remove the USB-C cable from your wheel. The Heusinkveld® One steering wheel is pre-calibrated and is now ready for use.

When you are finished racing, there is no need to manually turn off your Heusinkveld® One steering wheel. It will automatically turn itself off after a period of non-activity.

In order to wake the wheel up again, press any button on the wheel. The wheel will automatically establish a connection again with the dongle. The connection status led will first blink purple and then green for a few seconds when the connection has been re-established.

4. Personalisation

The Heusinkveld® Steering Wheel One allows owners to customize the layout of its 14 pushbuttons. A few extra buttons have been supplied with the wheel. You can also change the length of the shifter paddles.

4.1 Thumb buttons

Both grids of 5 thumb buttons can be rearranged to personal preference by removing the button guards using the provided Torx 10 tool. Unscrew both bolts from either button guard to release the guard.

Buttons can be exchanged between all 10 positions. Please take care while re-installing the button guards: The buttons must be lined up perfectly horizontal, so they slide over their guide notch when pressed.

Test if you can press the buttons before screwing down the button guard (gently hold down the button guard with your thumb while testing). If necessary, realign the buttons and test again.

IMPORTANT: Please take care while tightening the button guard bolts and prevent overtightening. Only a very light torque is needed to secure the button guards.

4.2 Panel buttons

The 4 push-buttons next to the panel with RGB LEDs can also be changed. First remove the caps of the multifunction switches by pulling them upwards. Then proceed to remove the panel bolts with the Torx 10 tool. The rest of the procedure is similar to changing the thumb buttons.

When reinstalling the caps of the multifunction switches, note the indentation in the shaft which is also present on the inside of the cap.

4.3 Rotary encoders

The four rotary encoders have a rubberized coating, giving the rotaries a lot of grip. You are able to side swipe, scroll or press the 4 rotary buttons.

4.4 7-way switch

The two 7-way switches have a rubberized central point, giving you grip while pushing it in different directions. This switch can also be pressed.

4.5 Shifter paddles.

You can both pull and push the shifter paddles (and assign separate outputs). The length of the paddles can be adjusted without tools: You can pull the end-flap of the paddle outwards to increase the length (and push inwards to decrease the length).

5. SmartControl

Heusinkveld® simracing products come with powerful software tools.

Download SmartControl at **heusinkveld.com**:

- Go to **Support**.
- Then go to **Manuals & Downloads**.
- Then go to **SmartControl** and click the download link.

5.1 Expand your outputs

Using SmartControl you can double or quadruple the amount of outputs per input. This allows you to configure 100+ outputs from your Heusinkveld One steering wheel. This works in 2 ways:

A. The function key - method 1

SmartControl allows you to assign a function button (Fn) to any of the button inputs of your wheel. When you press this function button, a green Fn icon will light up on your wheel, and every other input (buttons, rotaries) can generate a second output (if configured in SmartControl).

B. Short press / long press - method 2

SmartControl also allows you to configure a different output, depending on how long you press a button.

5.2 Up to 4 outputs per button

If you combine method 1 and 2, you can generate up to 4 outputs per button. For example:

- Fn not active, short press: Output A
- Fn not active, long press: Output B
- Fn active, short press: Output C
- Fn active, long press: Output D

5.3 LED and logo brightness

If you want to disable or change the brightness of the illuminated red Heusinkveld H-icon which is present on the RGB LEDs panel, you can do so in SmartControl.

5.4 Double clutch paddles

Your Heusinkveld® One steering wheel features two clutch paddles. By default, these output to a separate axis (eg. axis A for the left paddle, axis B for the right paddle).

In SmartControl you have the option to integrate their output to a single axis (eg. left and right paddle both output as axis A). The highest output value of any paddle will be sent to your simulator software. This will then allow you to configure a bite point setting.

5.5 Bite point setting per clutch paddle

For every individual paddle you can configure an output curve. It is possible to limit the maximum output for every individual paddle. This allows you to set the optimal clutch bite point.

Configuration example for a car where the optimal bite point is at 60%:

Left paddle: Set 60% output when fully pulled.
Right paddle: Set 100% output when fully pulled.

You can then do a standing start as follows:

On red light: Pull both paddles. Clutch output will be at 100%.

On green light: Release right paddle. Clutch output will be at 60% (bite point).

Then further release the left paddle after the initial acceleration phase.

6. Simhub

6.1 9 configurable RGB telemetry leds

Your Heusinkveld® One steering wheel features 9 configurable RGB telemetry leds. Using SimHub software, these leds can be used to show information such as RPM, flag warnings and TC/ABS activity (depending on simulator software support for these features).

6.2 Using Simhub

SimHub offers native support for your Heusinkveld® One steering wheel. It can be downloaded at simhubdash.com

After installation, launch Simhub, select Devices and select the Heusinkveld® One steering wheel.

For certain simulation software titles and certain cars, tailor made telemetry profiles have been included with SimHub. For almost all titles generic profiles have been included.

If you want to make your own RGB led telemetry visualizations: SimHub includes a powerful editor which offers endless possibilities to control the Heusinkveld® One steering wheel RGB LEDs.

SimHub is third party software and can be used for free. We however would like to encourage you to support the SimHub team with a paid license if you have the capacity to do so.

7. Extra information

7.1 CE Compliance

EU Declaration of Conformity

Manufacturer
Company name: Heusinkveld Engineering B.V.
Full address: Cuxhavenweg 5E
Postal code: 9723JK
Place: Groningen
Country: The Netherlands

Identification of Apparatus
Commercial name: One
Function/intended use: Steering wheel for racing simulators
Type/model: HE-SW1 (Heusinkveld One steering wheel)
Batch/serial: Refer to warranty card

The object of the declaration above is in conformity with all relevant provisions of:

EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU.

In conjunction with the following relevant harmonized standards or technical specifications:

EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55016-2-3:2017, EN-IEC 61000-4-2:2009, EN-IEC 61000-4-3:2020, EN IEC 63000:2018, EN-ISO 12100:2010.

Signed for and on behalf of:

Place of Issue: Groningen, the Netherlands.
Name: Svend van der Vlugt
Function: CEO
Date of issue: June 13th 2025
Signature:

7.2 FCC Compliance

FCC Declaration of Compliance

Manufacturer
Company name: Heusinkveld Engineering B.V.
Full address: Cuxhavenweg 5E
Postal code: 9723JK
Place: Groningen
Country: The Netherlands

Identification of Apparatus
Commercial name: One
Function/intended use: Steering wheel for racing simulators
Type/model: HE-SW1 (Heusinkveld One steering wheel)
Batch/serial: Refer to warranty card

The object of the declaration above is in conformity with all relevant provisions of:

FCC Rules and Regulations 47 CFR Chapter I
Part 15 Subpart B (9-5-25 Edition)
ICES-003 Issue 7 (15-10-20 Edition)
FCC 47 CFR Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices.
FCC 47 CFR Part 1.1307: Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
FCC 47 CFR Part 1.1310: Radiofrequency radiation exposure limits.
ISED RSS-102 Issue 6 (2023-12) – Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

Assessment reports: DEKRA 2300968.0501-EMC, 2300968.0502-RSM, 2300968.0503-RSM.

Signed for and on behalf of:

Place of Issue: Groningen, the Netherlands.
Name: Svend van der Vlugt
Function: CEO
Date of issue: July 30th 2025
Signature:

8. Contact & colofon

Extra information & tutorials

This is the product manual for your Heusinkveld® One steering wheel. It contains all essential information to start using your Heusinkveld® One Steering Wheel. Extra information, tutorials and the SmartControl software can be found on our website: heusinkveld.com

Pit stop for your questions

If you have any questions about our products or need help with the installation, our Support Team is happy to help you at support@heusinkveld.com

Join our community

Please recycle responsibly

The packaging of this product is made out of paper and cardboard where possible. Please make sure to follow local guidelines for responsible recycling.

This product is CE Certified:

heusinkveld.com/ce-certifications

Partner van wecycle

Product name: One steering wheel
Model: HE-SW1
Voltage rating: 5V (USB)

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Heusinkveld Engineering B.V.
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Groningen, The Netherlands