



ARES APEX Function Guide

Supports: ARES APEX

V1.01

Conspit R&D

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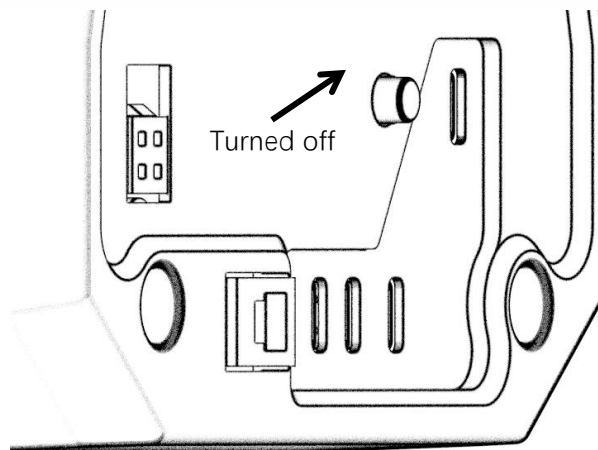
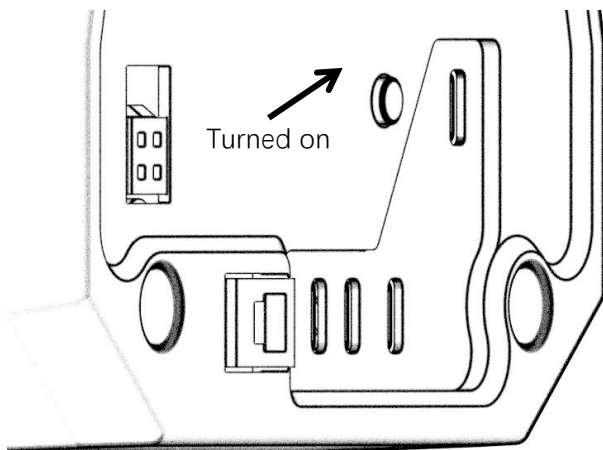
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There may be slight differences between the visuals and descriptions presented and the actual situation. Please refer to the actual circumstances.

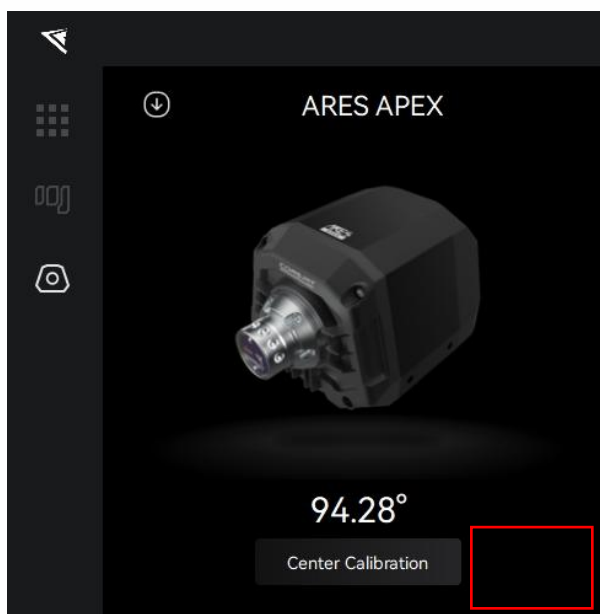
1. Hardware Usage Instructions

1.1 Switch Button and Torque Switch

Switch Button:



Torque Switch in Software:



The image shows the test version of the software. In the official version, a torque switch button will be added here.



1.2 Precautions for Power Supply Usage

- 2) Please check your electrical environment and ensure that the sockets or extension cords used are properly grounded to avoid effecting the normal function of the product.
- 3) Please do not plug in the steering wheel before connecting to the power supply.
- 4) Do not hot plug the power supply.
- 5) When powering on, connect the power supply to the "POWER" port at the rear of the base first, then plug it into the outlet.
- 6) When powering off, unplug it from the outlet first, then disconnect it from the "POWER" port at the rear of the base.



2. Driver Software & Functions

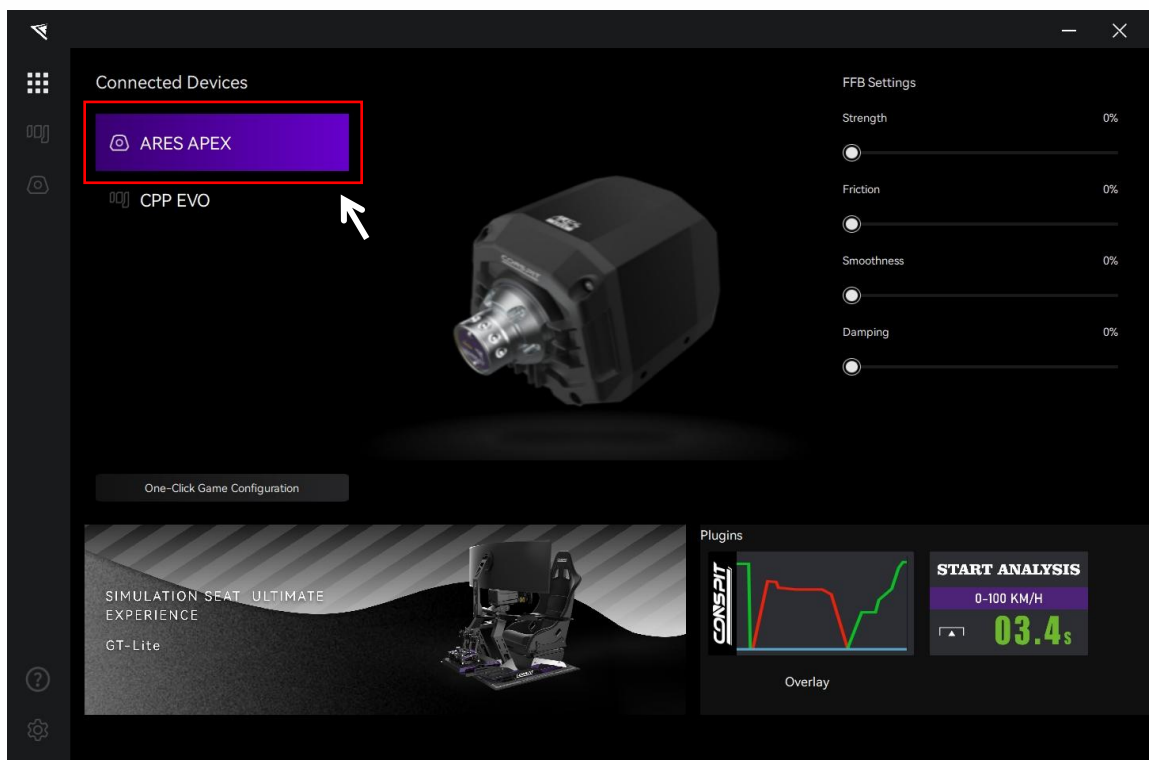
2.1 Driver Software Downloads

Visit www.conspit.com, or scan the QR code below to download Conspit Link 2.0.

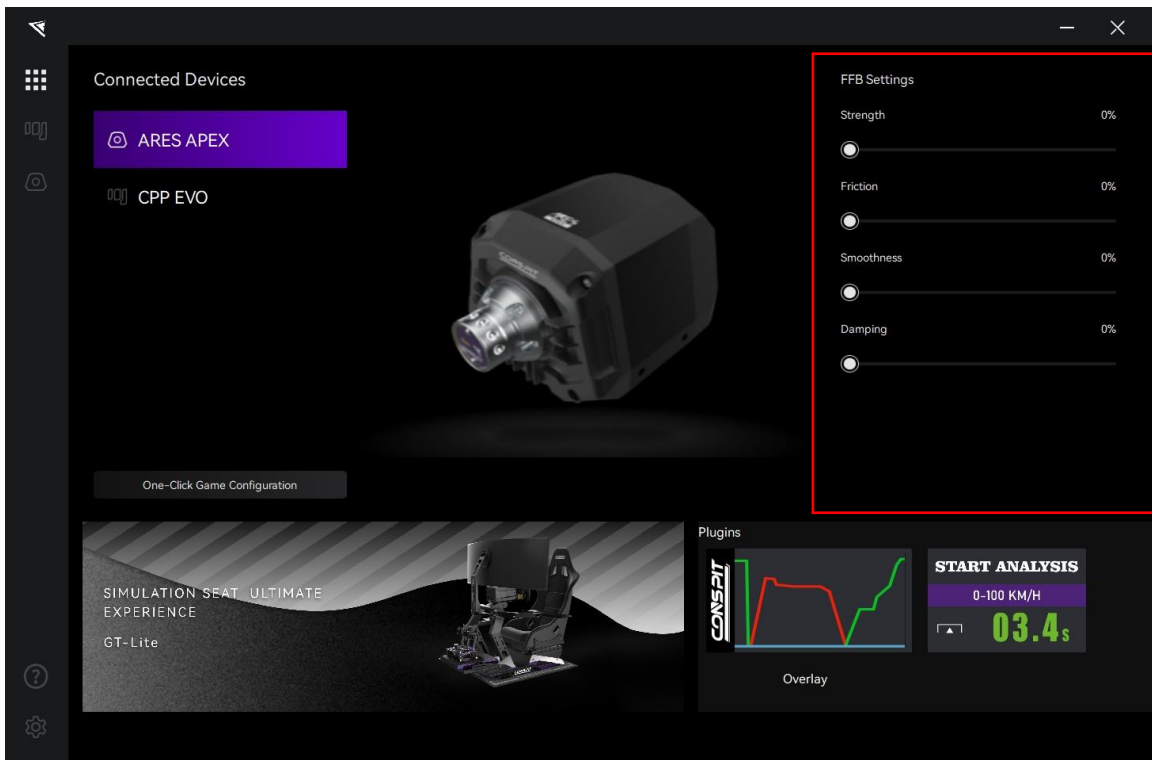


2.2 Homepage

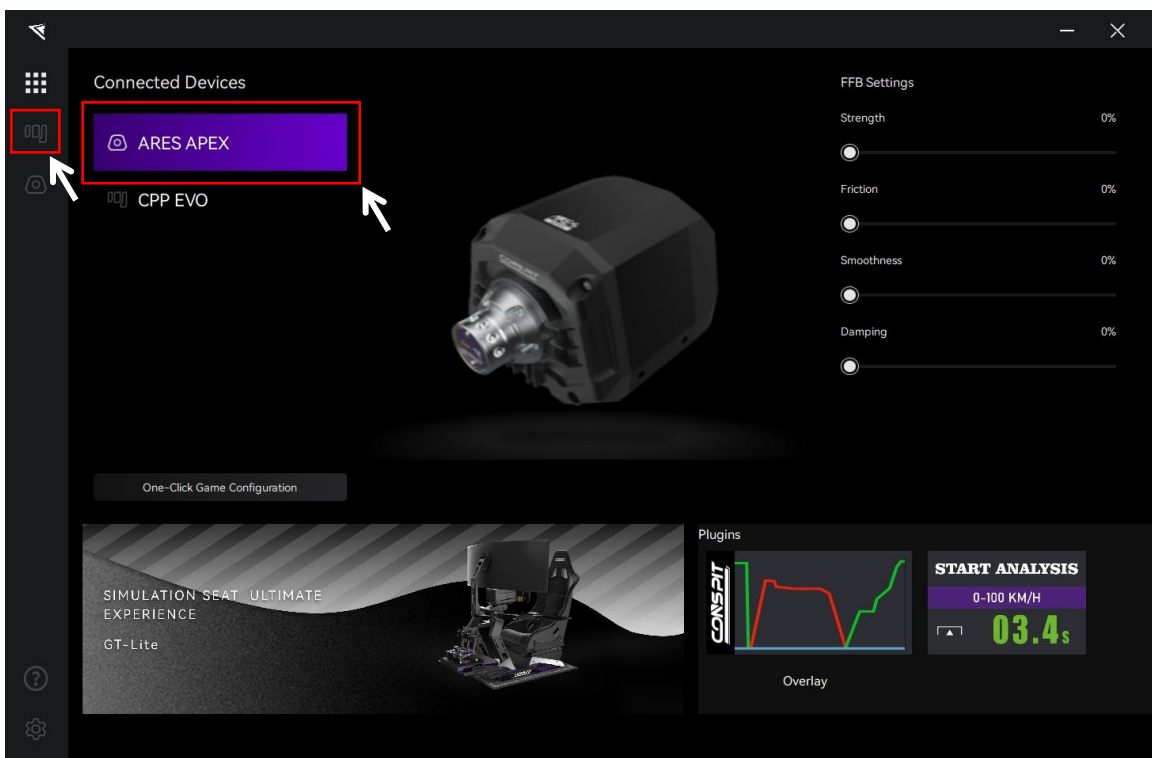
Click to select ARES APEX on the homepage.



On the right side of the homepage, you can quickly adjust the current config of the device.



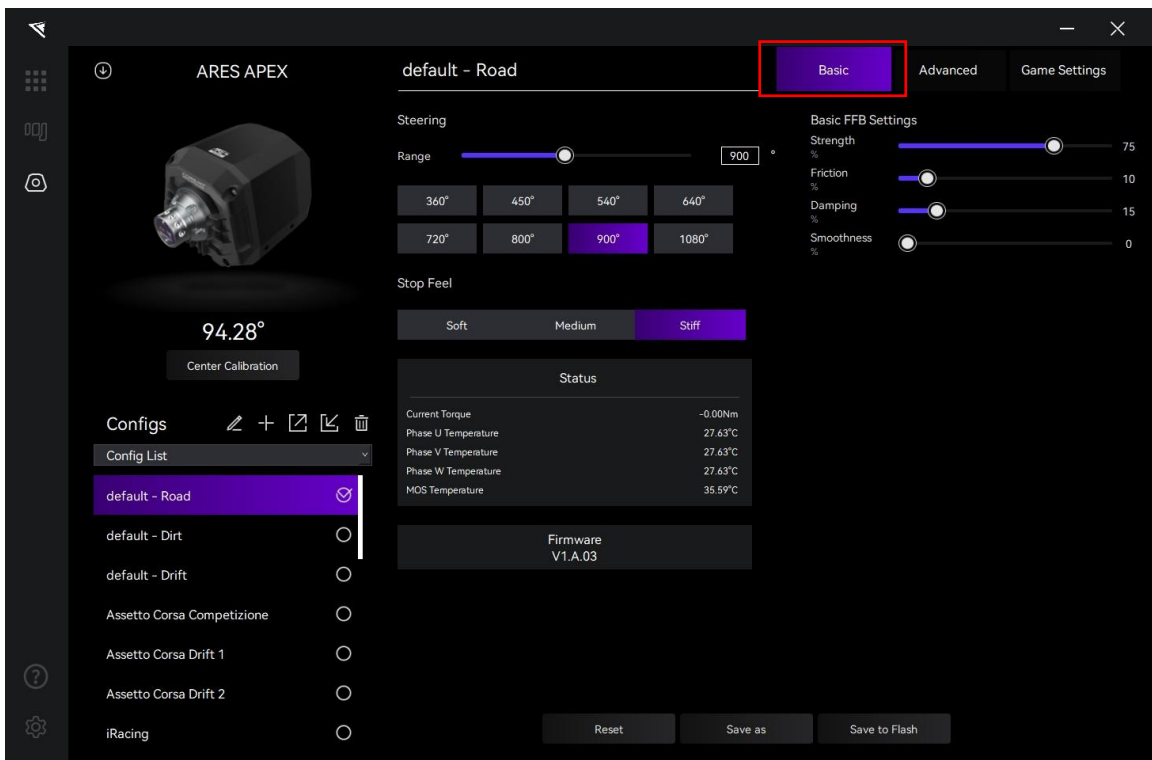
Double-click the device name in the “Connected Devices” list, or click the corresponding icon of the device to enter the detailed settings pages.





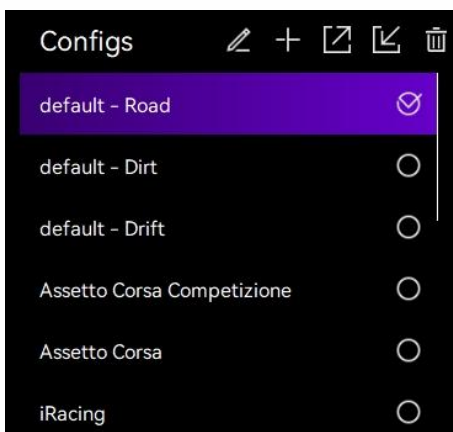
2.3 Basic Settings

Click on "Basic" in the menu bar to enter the basic settings interface.



Configs:

In each setting page, in the "Config" section at the bottom left, you can select, rename, add, export, import, or delete configs. If you need to customize the settings, please create a new config, click "Save" after setting is completed, or modify the official default config and click "Save as".





Safety Instructions:

- Ensure Rigid Installation of the Product
 - Be sure to use the four slider nuts at the bottom of the base or dedicated side mounting bracket to secure the base to a sturdy platform or a well-designed sim-racing rig. Do not use any other type of mounting.
- Ensure Proper Installation of Accessories
 - Check the connection of quick release, steering wheel, and other accessories. Do not use when bolts are loose or components are damaged.
 - Check the fixation of device connection cables to avoid entanglement during steering wheel rotation.
- Confirm Product Full Functionality
 - Ensure the functionality of auxiliary accessories if connected.
 - Do not use the product or its software in case of possible failure.
- Use the Product Safely
 - Ensure that users have the ability to move independently and a clear consciousness. Do not use the product when sick, tired, or under the influence of alcohol/drugs.
- Safety of Product Placement
 - Ensure that no objects are placed in the space where the steering wheel rotates. Leave enough space around the product and its accessories for comfortable use and exit.
- Safety During Gameplay
 - Ensure to firmly grip the steering wheel at all times to prevent unexpected crashes or loss of control which may result in personal injury.
 - Operating in High Torque Mode for an extended duration may result in elevated surface temperatures. Do not touch.
 - Do not carry sharp objects (such as keys, tools, etc.) during gameplay.
 - Prevent others from entering the user's operating area.
 - Avoid prolonged use of the product - prolonged continuous use may cause fatigue, muscle pain, or other negative effects. We recommend a maximum single usage duration of 2 hours and a maximum daily usage time of 6 hours.
 - Children must use the product under the supervision of their guardian.
- Potential Hazards Under Normal Use Include, but are not Limited to:
 - Other people or pets approach the user's operating area.
 - Other electronic device connection cables or items near the steering wheel or base axis and other moving parts' working areas.
 - User attire inadequately covering knees, arms, feet, legs, etc.

Before activating the High Torque Mode, please ensure that you have read and fully understood the above safety instructions. Within the scope permitted by the laws of the People's Republic of China, Ensu (Shanghai) Electronic Technology Co., Ltd. is not responsible for any personal injury or property damage caused by your failure to follow any of the above safety tips or operational norms.

If you have any questions about the above statement or product safety instructions and operational norms, you can consult via support@conspit.com.cn. If you do not agree with any of the content above, please do not confirm the activation of the High Torque Mode. If you confirm the activation of the High Torque Mode, your confirmation will be deemed as acceptance of all the contents of this statement, safety instructions, and operational norms.



Under "High Torque Mode", please further pay attention to safety:



High Torque Warning

High torque mode activated. Please ensure safe usage of the product and remain alert to potential safety risks at all time.

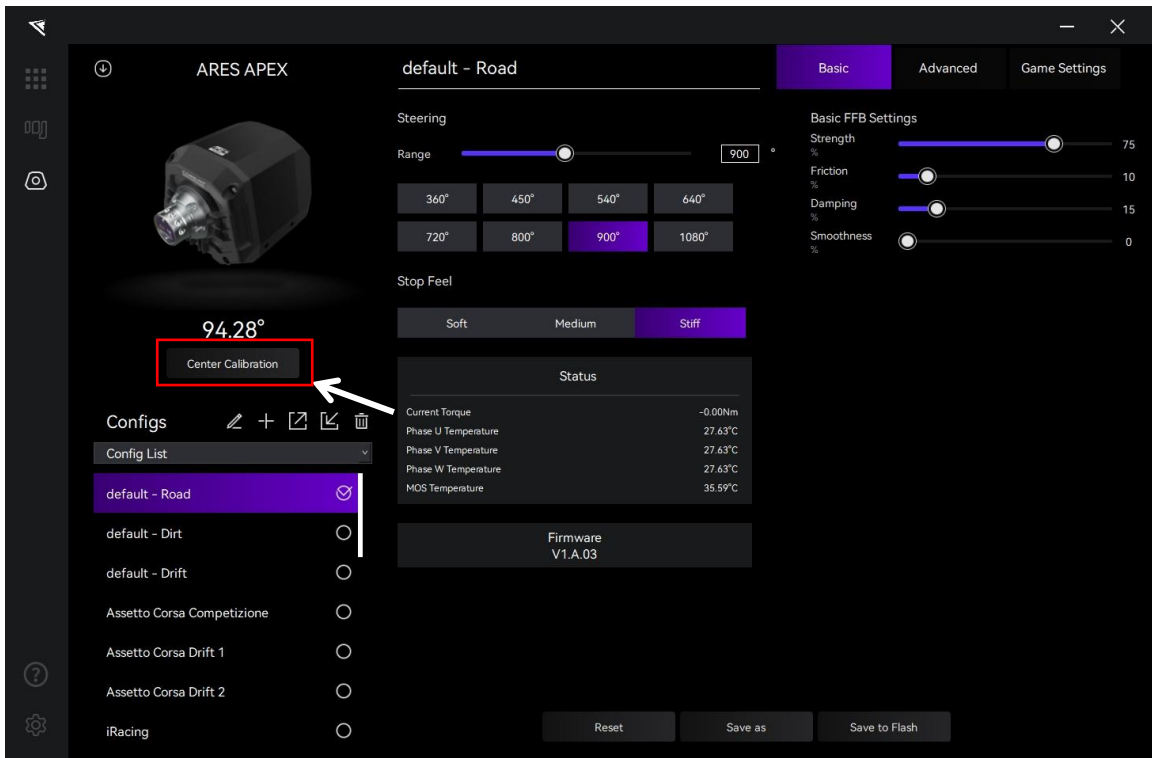


Caution Hot Surface

Operating in High Torque Mode for an extended duration may result in elevated surface temperatures. Do not touch.

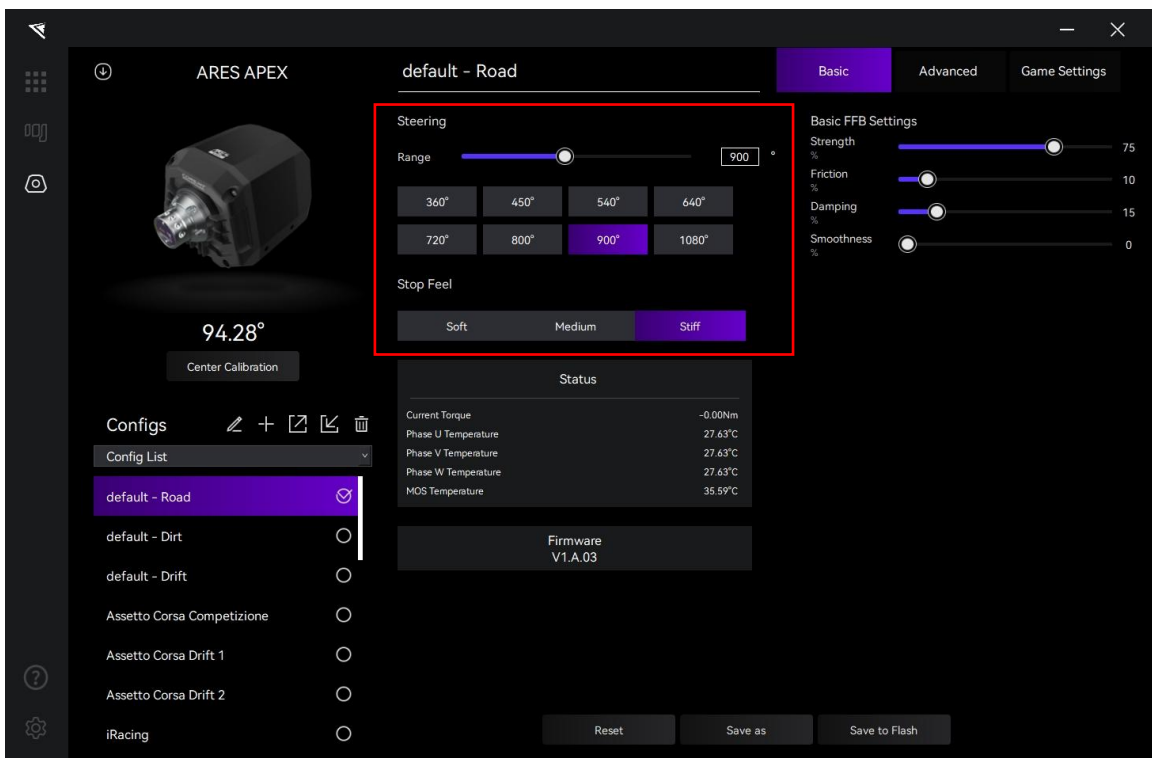
Center Calibration:

After installing the steering wheel and aligning the axis to a correct direction, click the "Center Calibration" button. The current steering angle will be displayed in real-time above the button.



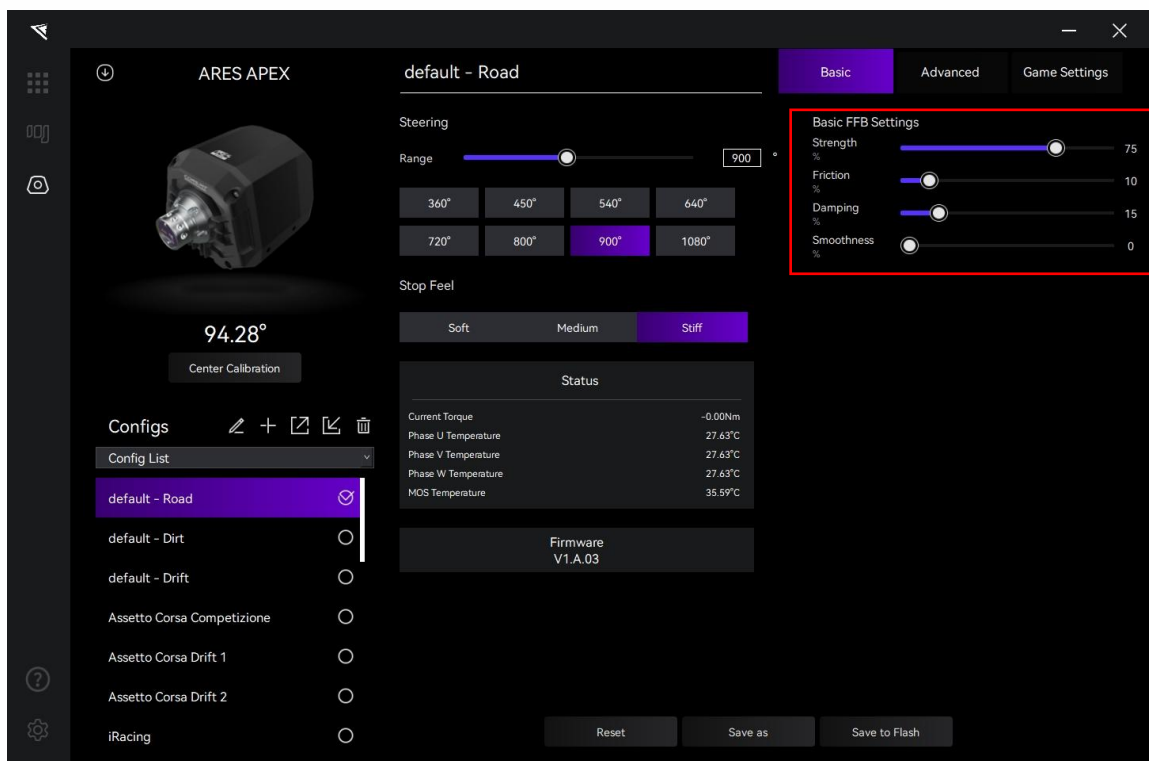
Steering & Stop Feel Settings:

(Steering angle supports preset angle selection, dragging, and manual input settings)

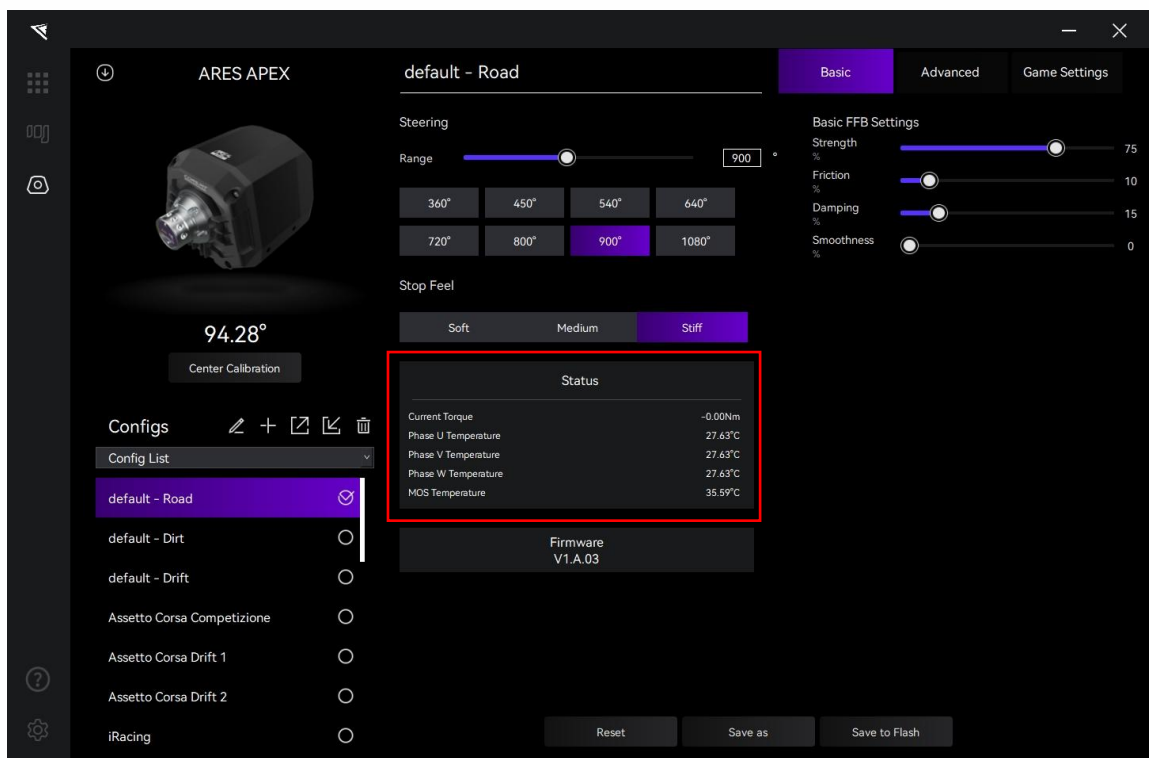




Basic FFB Settings:



Real-time Status:





Current Firmware Version:

The screenshot displays the ARES APEX software interface. On the left, a sidebar shows a 'Config List' with several configurations: 'default - Road' (selected), 'default - Dirt', 'default - Drift', 'Assetto Corsa Competizione', 'Assetto Corsa Drift 1', 'Assetto Corsa Drift 2', and 'iRacing'. The main area is titled 'default - Road' and features a 'Steering' section with a range slider set to 900 and a grid of angle buttons (360°, 450°, 540°, 640°, 720°, 800°, 900°, 1080°). Below this is a 'Stop Feel' section with buttons for 'Soft', 'Medium', and 'Stuff'. A 'Status' table shows various sensor readings: Current Torque (-0.00Nm), Phase U Temperature (27.63°C), Phase V Temperature (27.63°C), Phase W Temperature (27.63°C), and MOS Temperature (35.59°C). A red box highlights the 'Firmware V1.A.03' text. On the right, 'Basic FFB Settings' include sliders for Strength (75%), Friction (10%), Damping (15%), and Smoothness (0%). At the bottom, there are 'Reset', 'Save as', and 'Save to Flash' buttons.

Status	
Current Torque	-0.00Nm
Phase U Temperature	27.63°C
Phase V Temperature	27.63°C
Phase W Temperature	27.63°C
MOS Temperature	35.59°C

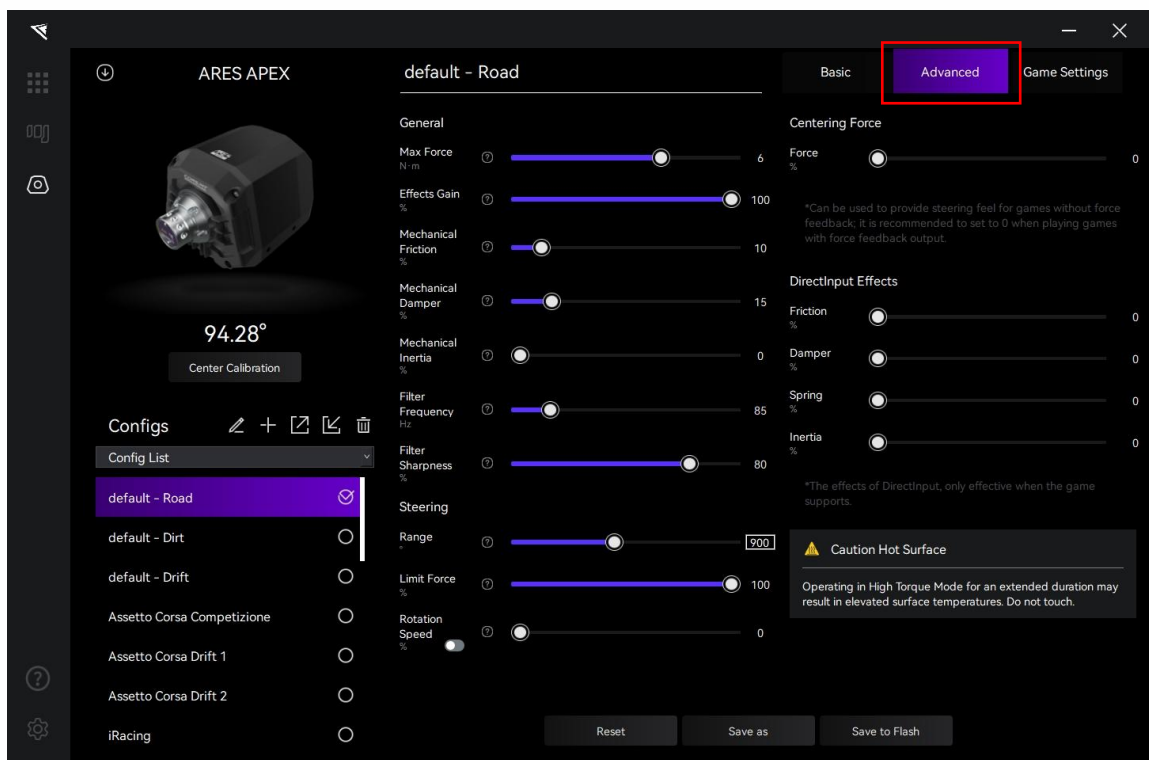
Firmware	
V1.A.03	



2.4 Advanced Settings

Click on "Advanced" in the menu bar to enter the advanced settings interface.

On this page, you can fine-tune the detailed usage feel of the base.

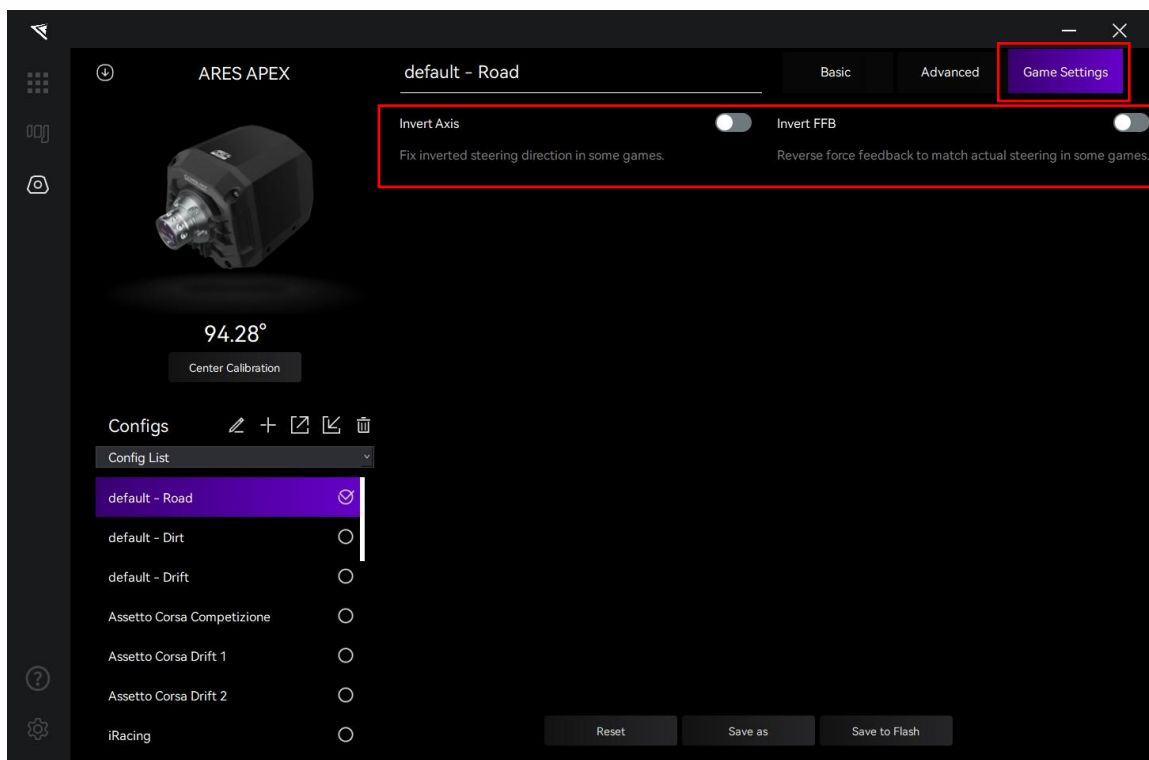




2.5 Game Settings

Click on "Game Settings" in the menu bar to enter the game settings interface.

On this page, you can change the axis input direction and force feedback direction.

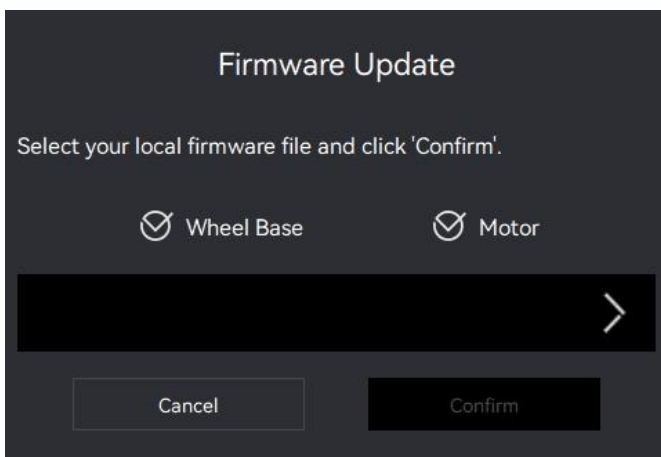
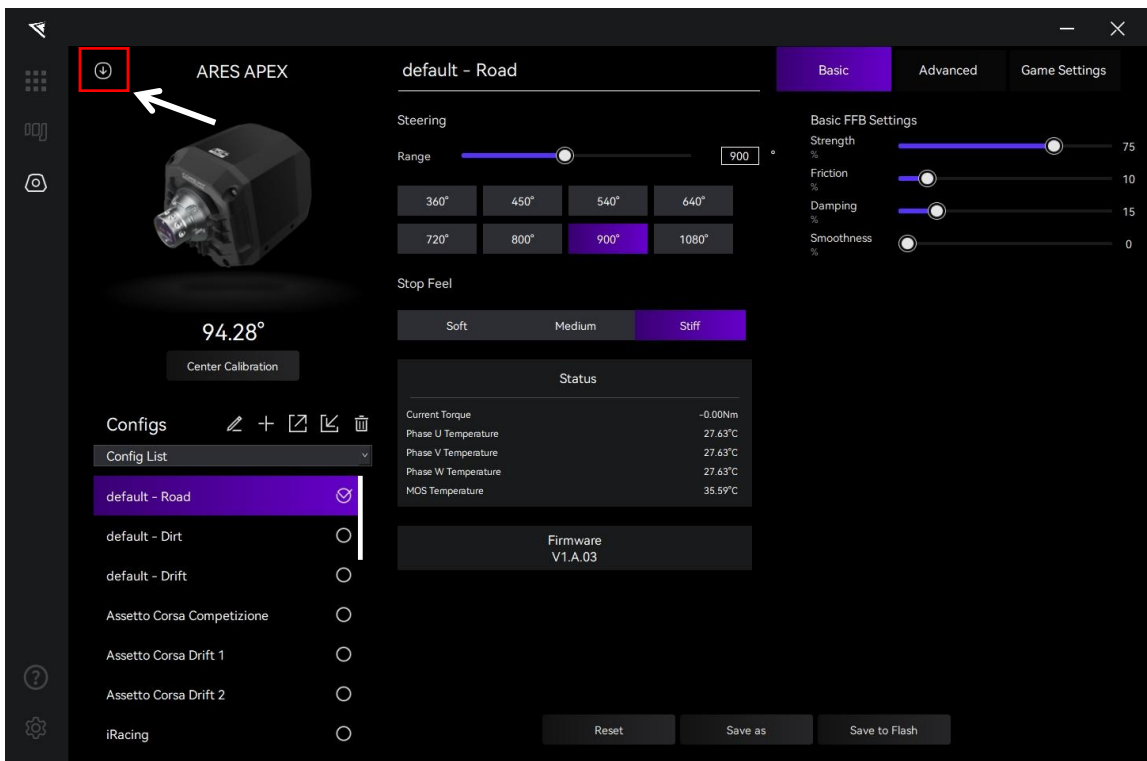




2.6 Firmware Update

Visit www.conspit.com to download the firmware for the corresponding product;

Enter the detailed settings pages and click the "↓" symbol in the top left corner to update.



Click the ">" button on the right side of the pop-up window to select the firmware you have downloaded for the corresponding product; in the pop-up window, select the corresponding firmware type ("Wheel Base" or "Motor"), then click "Confirm" to update the firmware.

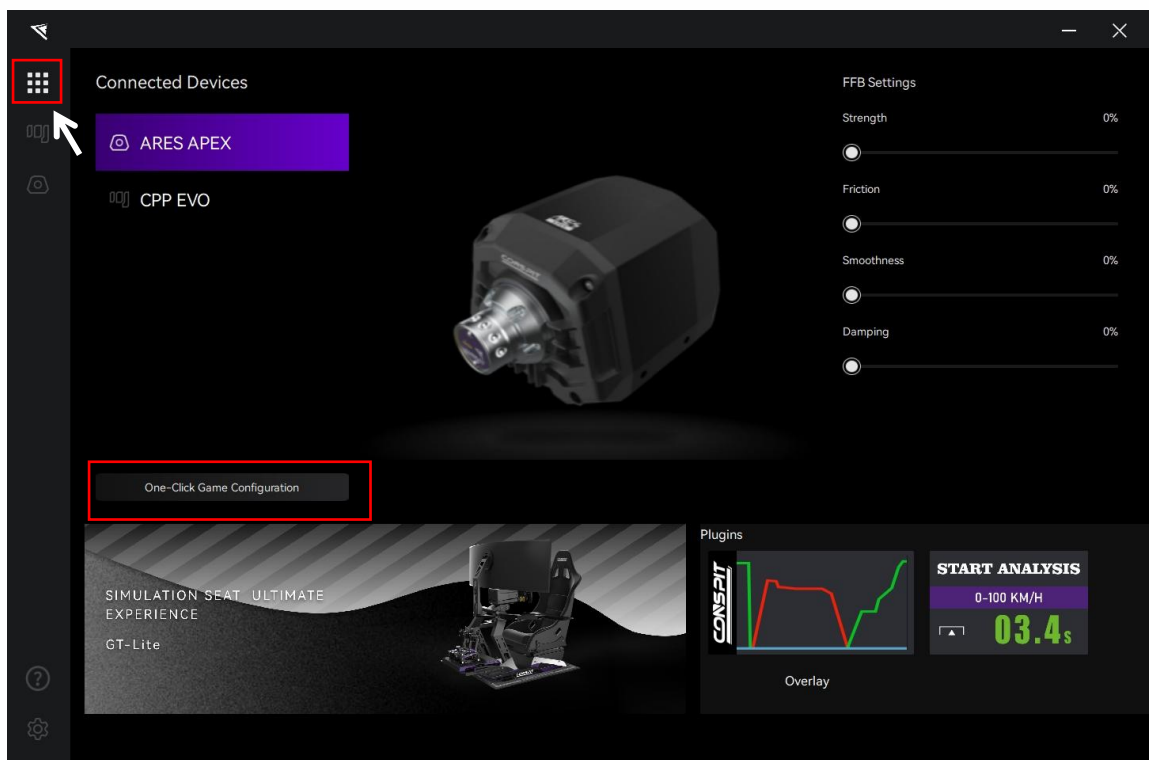
Note:

- 1) After the update is complete, the base will enter the idle mode and need to be woken up by pressing the Idle Switch.
- 2) If the progress bar gets stuck, please unplug and replug the USB cable and try again.

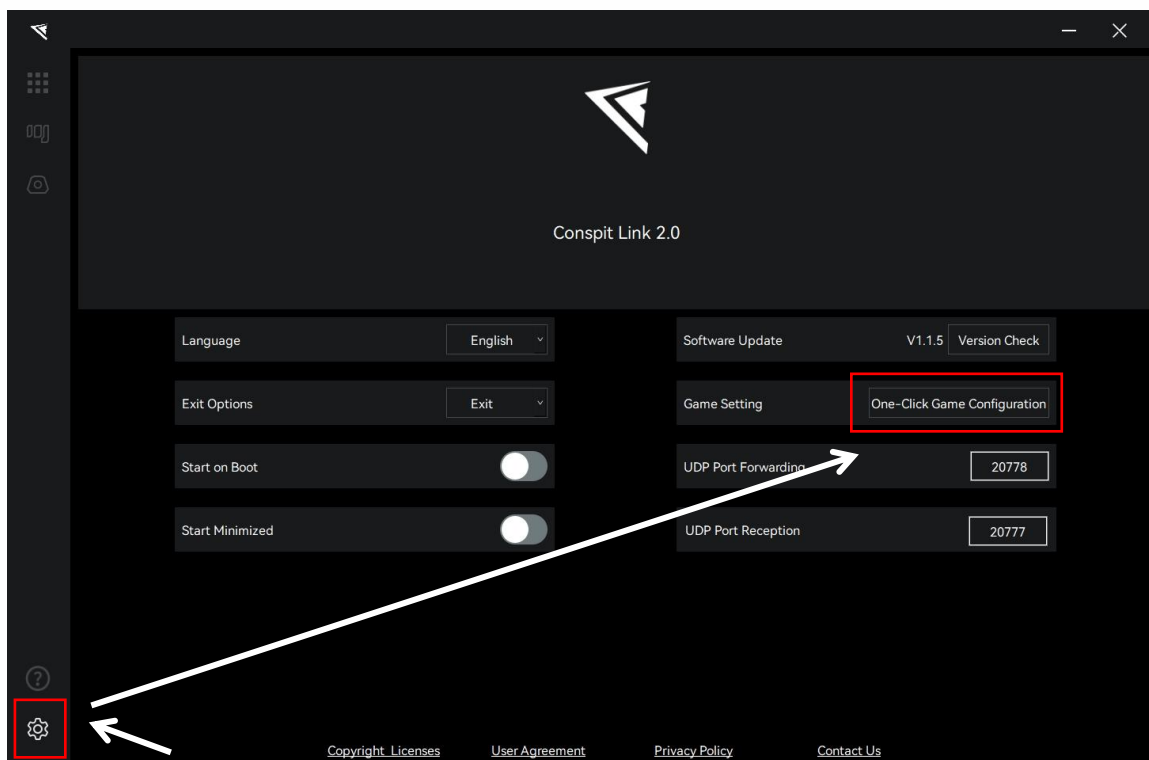


2.7 One-Click Game Configuration

Enter Homepage, click on “One-Click Game Configuration” button to configure.



You can also click on the "Settings" icon in the bottom left corner to enter the driver settings interface, and click on "One-click Game Configuration" to configure.





3. Detailed Explanation of Force Feedback Parameters

Comprehensive Feeling

- **Max Force:** The highest torque output of the base unit's motor, determining the maximum force feedback strength.
- **Effect Gain:** Adjusts the intensity of the force feedback effects as a percentage of the maximum force. This setting affects all force feedback strengths, including feedback from road surfaces such as curbs, grass, and bumps. It is generally recommended to set this to 100% to fully experience the game's FFB details.
- **Mechanical Friction:** Provides a consistent resistance that is added on top of the force feedback from the game, regardless of the state.
- **Mechanical Damper:** Applies a counteracting force to the motor's rotation, proportional to the rate of change in speed. For example, the sharper the steering input (i.e., the greater the angular acceleration of the motor shaft), the stronger the counteracting force, and vice versa.
- **Mechanical Inertia:** Simulates the rotational inertia of the steering wheel, primarily affecting the feel when starting or stopping the wheel rotation. The greater the inertia, the harder it is to start or stop the steering wheel.
- **Filter Frequency:** Filters forces near the set frequency value to eliminate high-frequency noise. This affects the "road feel" or "smoothness," and depending on the game's requirements, it is generally recommended to set this between 60Hz and 300Hz.
- **Filter Sharpness:** The higher the sharpness value, the more concentrated the filtering is around the filtering frequency. Simply put, the lower the sharpness value, the wider the filtering range, making the force feedback smoother; the higher the sharpness value, the more concentrated the filtering, making the force feedback clearer.

Steering Settings

- **Range:** The maximum rotation range limited by the reverse force of the motor.
- **Limit Force:** Control the strength of the angle limit based on a percentage of the currently set maximum force.
- **Rotation Speed:** The threshold value that controls the return speed. The higher this value, the lower the limitation, and the faster the return speed.



4. Game Compatibility List

Games	Latest Firmware
Assetto Corsa	☒
Assetto Corsa Competizione	☒
Automobilista 2	☒
Forza Horizon 4	☒ (Special configuration is required)
Forza Horizon 5	☒ (Special configuration is required)
Dirt Rally 2.0	☒ (Special configuration is required)
Dirt Rally	☒
Dirt 4	☒
EA WRC	☒ (Special configuration is required)
F1 2020	☒ (Need to disable steering assistance)
F1 22	☒ (Need to disable steering assistance)
F1 23	☒ (Need to disable steering assistance)
F1 24	☒ (Need to disable steering assistance)
rFactor 2	☒ (Special configuration is required)
Rennsport	☒ (Special configuration is required)
Le Mans Ultimate	☒
BeamNG	☒
KartKraft	☒
Project Cars 1	☒
Project Cars 2	☒
WRC 8	☒
WRC Generations	☒
Trackmania 2020	In process of development and adaptation
DCS World	In process of development and adaptation
IRacing	☒
Euro Truck Simulator 2	☒
RaceRoom	☒
Live for Speed	☒
Wreckfest	In process of development and adaptation
F1 CHALLENGE 99-02	In process of development and adaptation
Mud Runner	In process of development and adaptation
Snow Runner	In process of development and adaptation

**Automobilista 2 Special Configuration:**

1) Open the game, enter the "Options" interface, in "Control Scheme", change the "TYPE" option to "Wheel", change the "MAKE" option to "Logitech", and change the "MODEL" option to "G29", then restart the game.

Forza Horison Series Special Configuration:

1) Please locate the "media" folder in the root directory of your game.

For Steam users, right-click on Forza Horizon 4 or 5 in your library, click "Manage" → "Browse Local Files" to find the following path:

SteamLibrary\steamapps\common\ForzaHorizon5\media

For Xbox users, the path is:

Xbox\Forza Horizon 5\Content\media

2) Copy the resource file "inputmappingprofiles.zip" into the "media" folder to replace the existing one;

3) Restart the game.

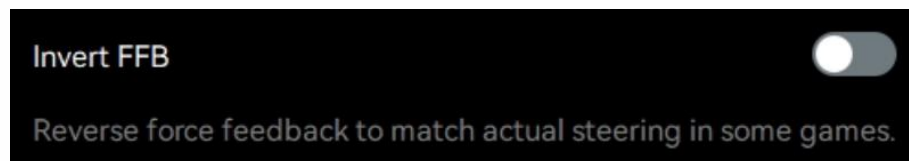
EA WRC & Dirt Rally 2.0 Special Configuration:

1) You need to click on the settings icon in the bottom left corner of the driver, click on the "One-click Game Configuration" button, and then proceed to play the game.

rFactor 2 & Rennsport Special Configuration:

1) You need to enable the "Invert Force Feedback" option in the game.

2) Alternatively, you can find the "Invert FFB" button within the "Game Settings" in the driver and turn it on.





5. Revision History

Date	Version	Release Notes
2025.12.16	V1.01	Updated the Game Compatibility List.
2025.09.30	V1.0	First release

6. Disclaimer and Copyright Notice

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