



Ares Series Function Guide

Supports: Ares, Ares Platinum

V1.31

Conspit R&D

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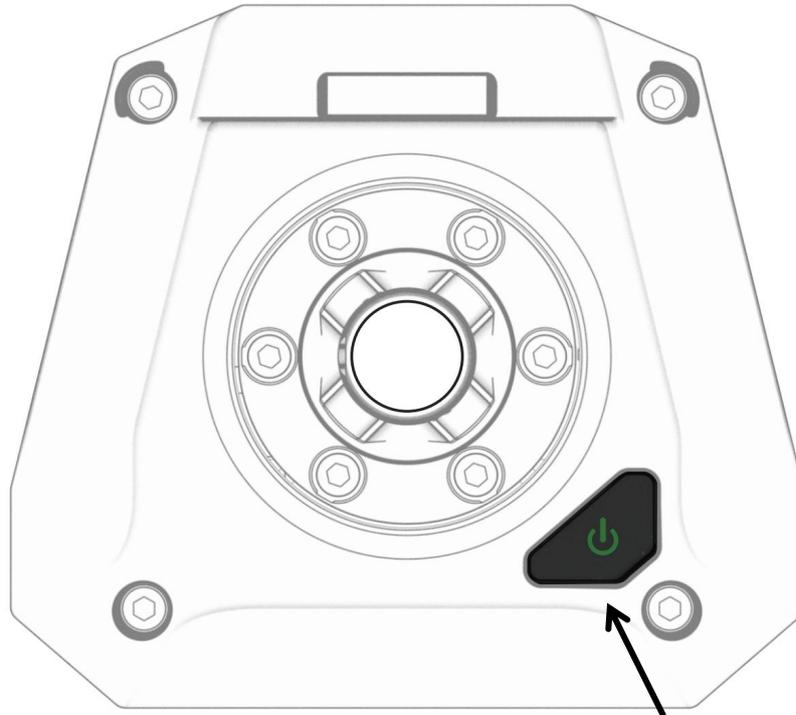


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1. Hardware Usage Instructions

1.1 Idle Switch and the Indicators



Idle Switch:

Click to switch working mode
Press and hold for 2 sec to shut down

Indicator:

Off: Shutdown status.

Green light steady on: Normal working status.

Green light flashing quickly: Peripheral Device Malfunction.

Green light flashing slowly: The wheelbase axis has exceeded the limit.

Blue light steady on: Idle mode.

Blue light flashing quickly: Motor failure, please contact CONSPIT official customer service.

Blue light flashing slowly: Motor error, please refer to the pop-up guidance in the driver software for solutions.

Cyan light steady on: Firmware update is stuck.

Cyan light flashing slowly: Updating firmware in progress.

Cyan light flashing extremely slowly for 5 times then goes out: Entered incorrect firmware.



1.2 Precautions for Power Supply Usage

- 1) 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.
- 2) Please do not plug in the steering wheel before connecting to the power supply.
- 3) Do not hot plug the power supply.
- 4) When powering on, connect the power supply to the "POWER" port at the rear of the base first, then plug it into the outlet.
- 5) 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

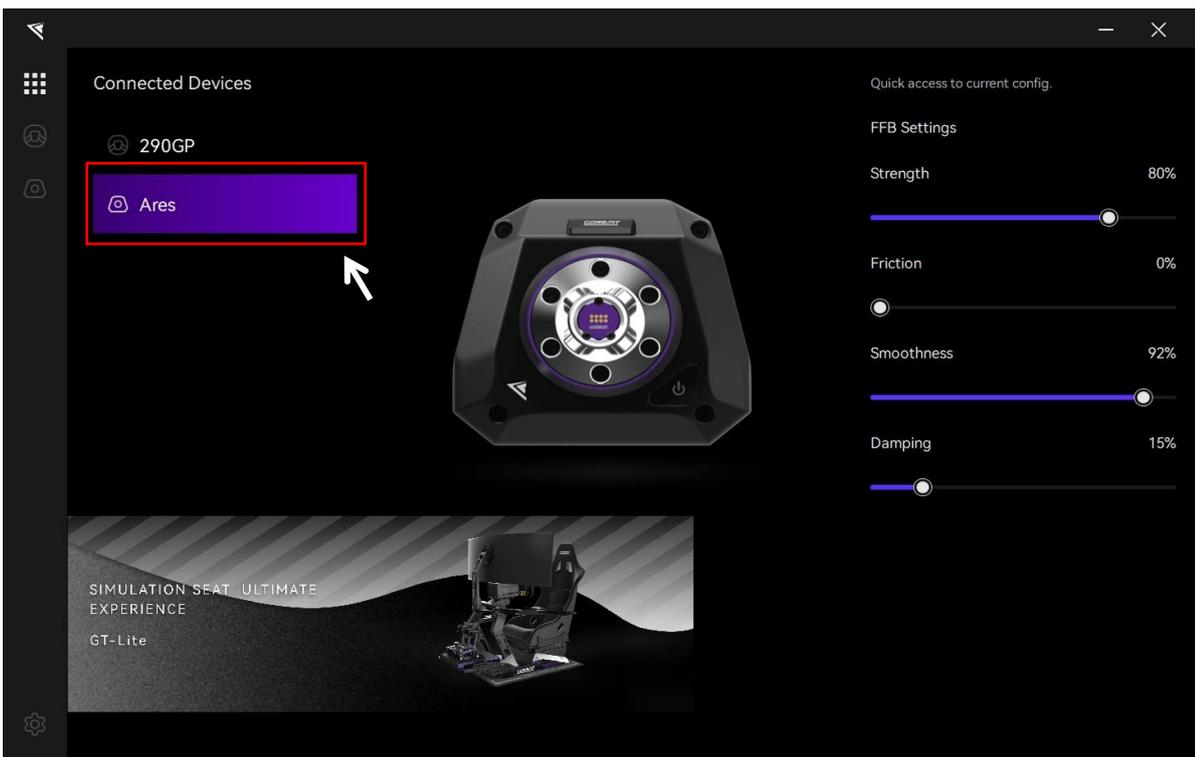
2.1 Driver Software Downloads

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

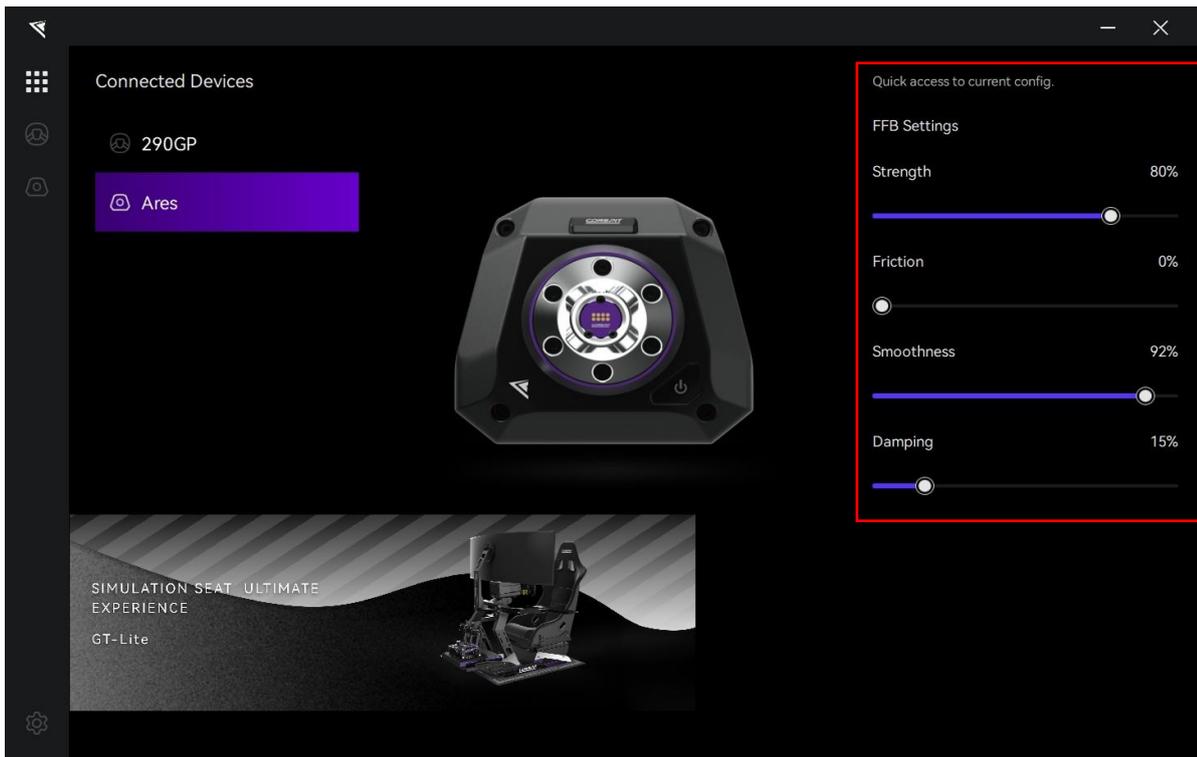


2.2 Homepage

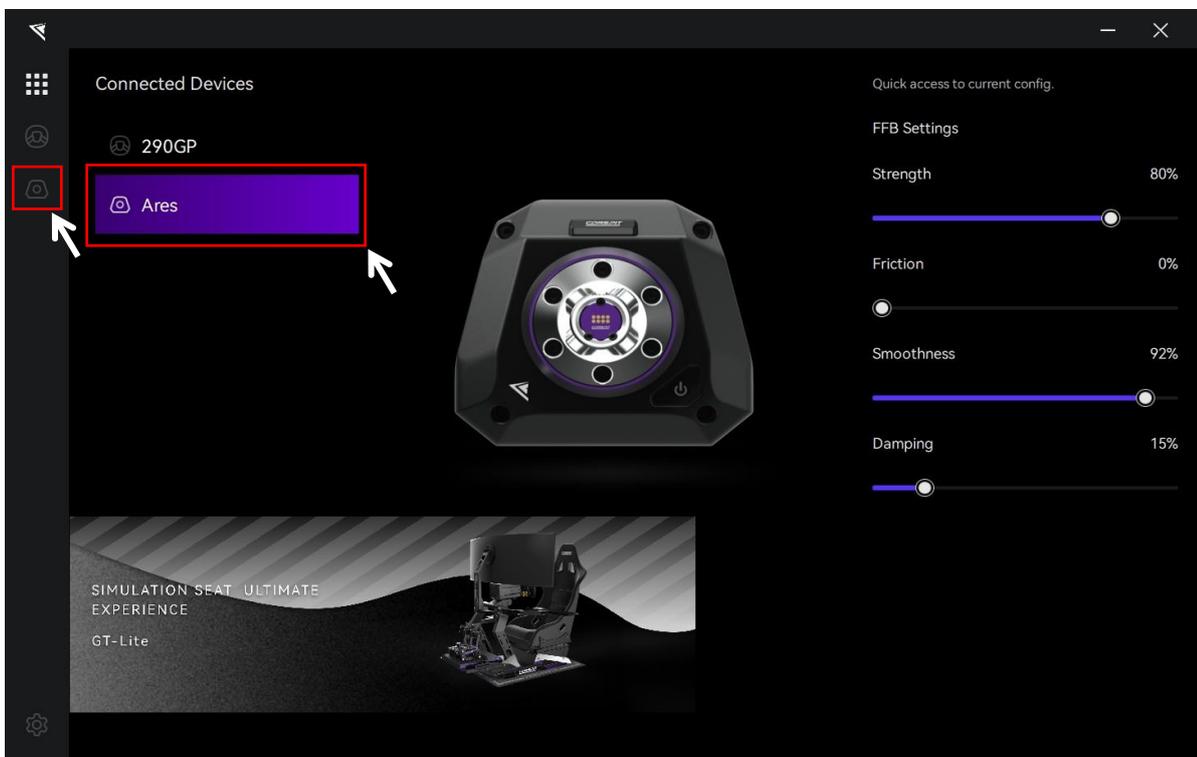
Click to select Ares / Ares Platinum on the homepage.



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



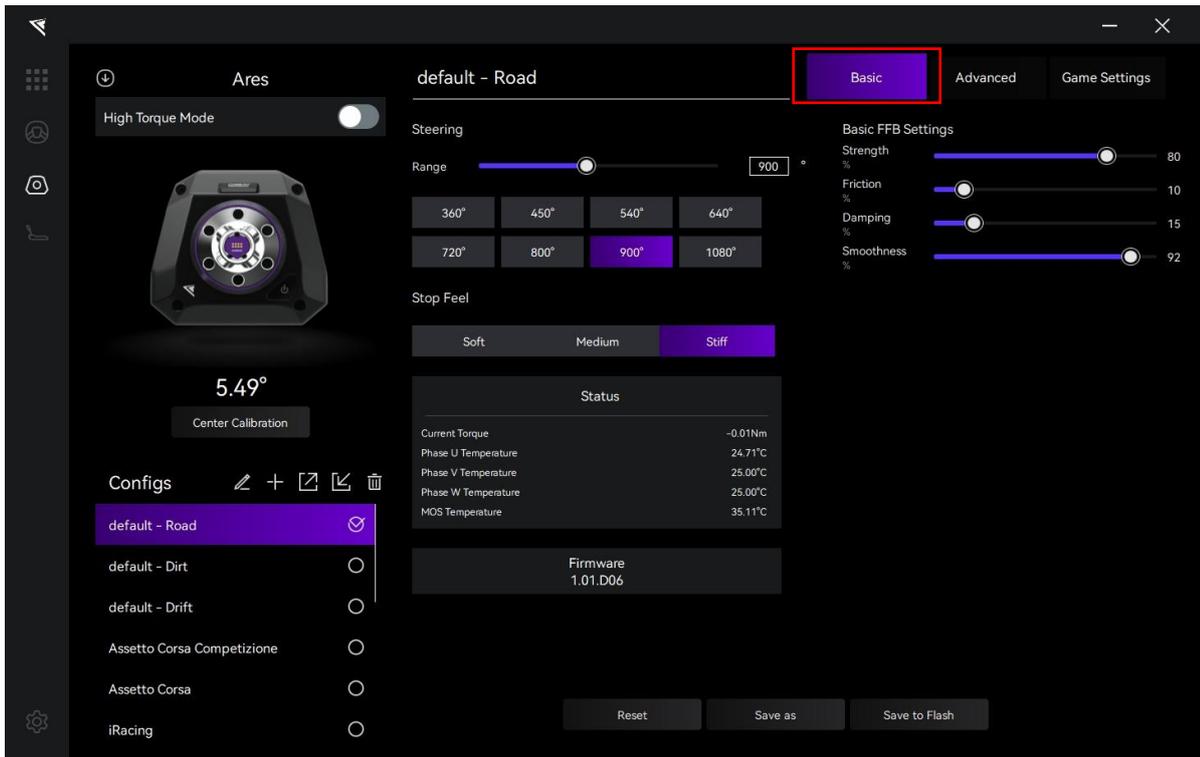
Double-click the device name in the “Connected Devices” list, or click the corresponding icon of the device to enter the detailed settings pages.





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".

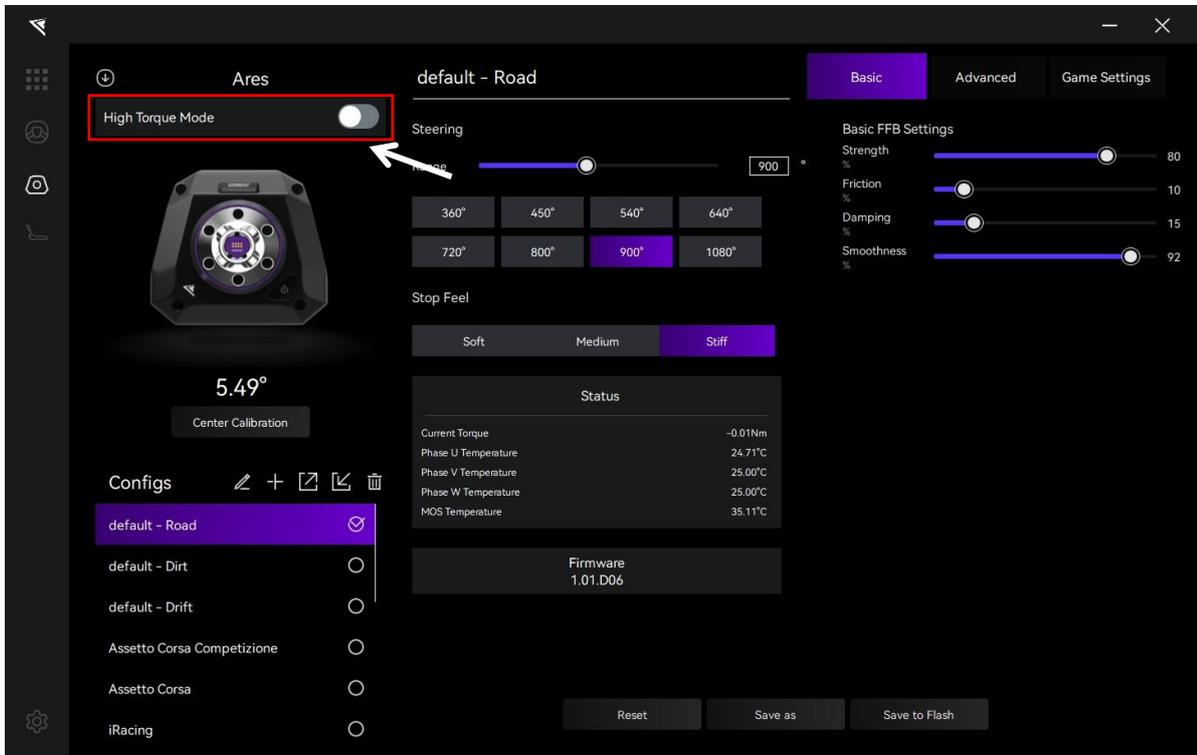




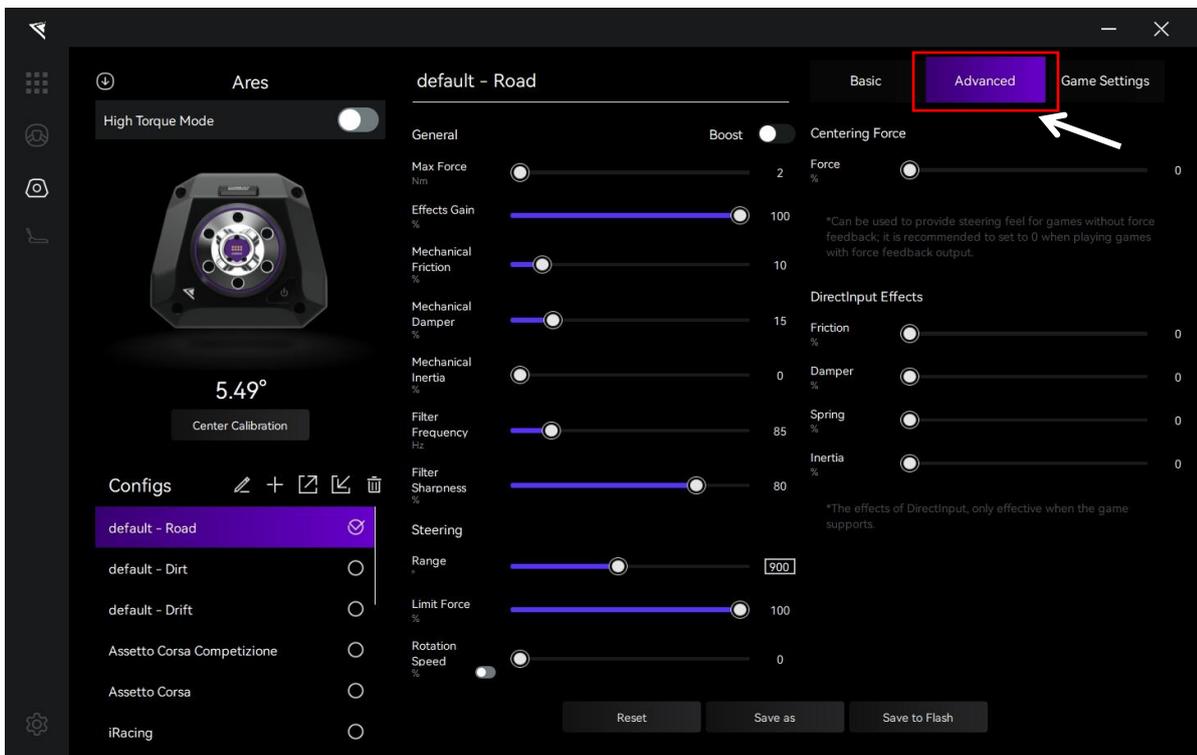
High Torque Mode:

When the “High Torque Mode” is not activated, the base will be in safe mode, and the maximum torque will be limited to 2Nm.

Activating the “High Torque Mode” means exiting the safe mode. When this option is activated, the base will work within the set torque range.



When the High Torque Mode is activated, you can enter the "Advanced" interface to further enable the “Boost” mode.



**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.

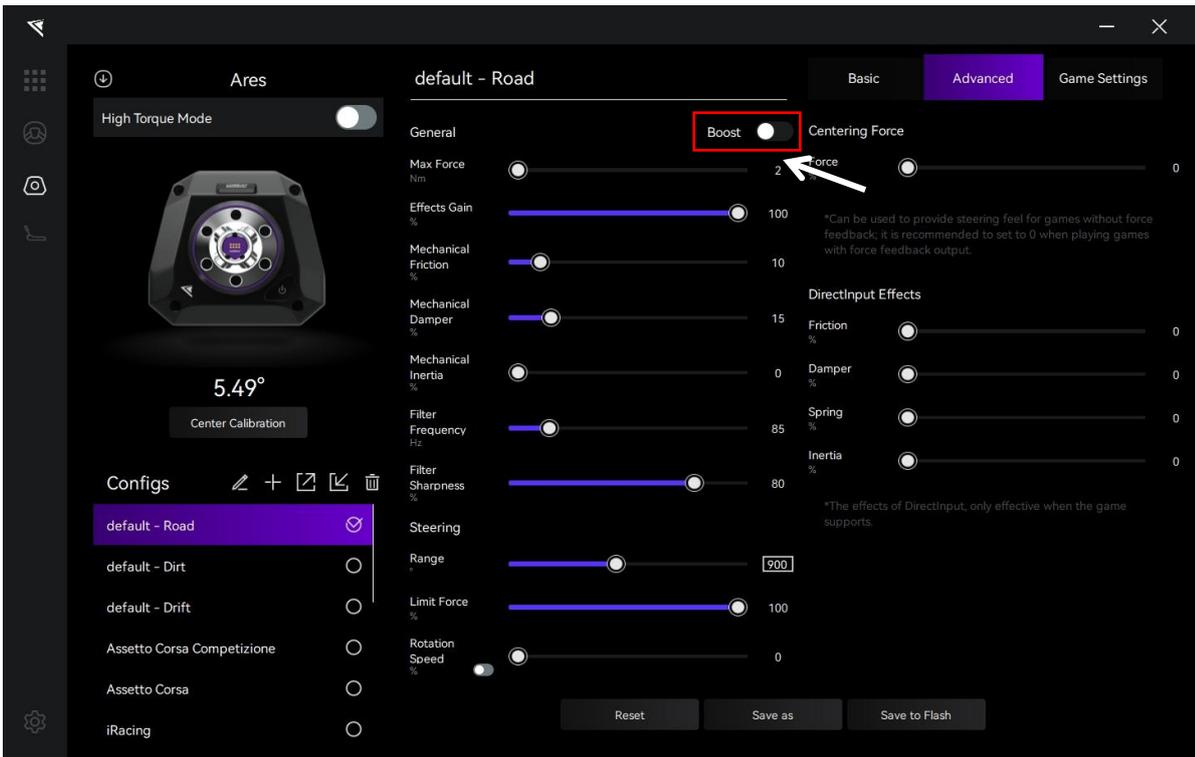
Before activating the High Torque Mode, please ensure that you have read and fully understood the above safety instructions. Within the scope permitted by the laws of the People's Republic of China, Ensu (Shanghai) Electronic Technology Co., Ltd. is not responsible for any personal injury or property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

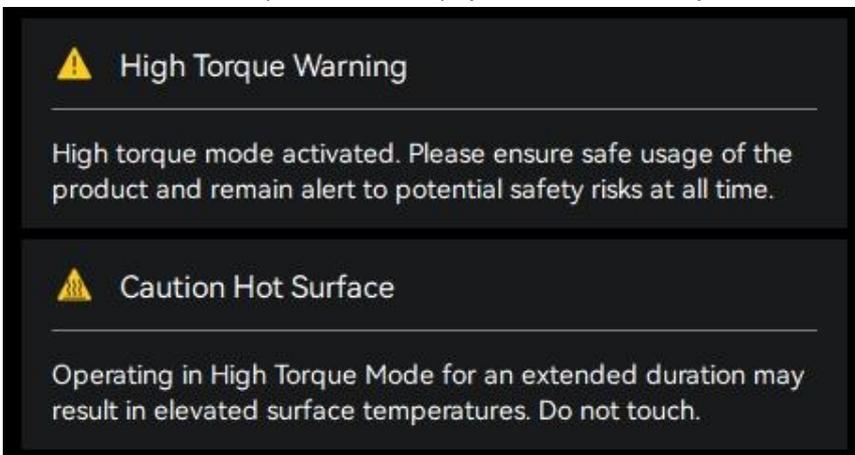


Boost Mode:

When the "High Torque Mode" option is activated, the torque of the base is further increased to full power mode when activating the "Boost" mode.

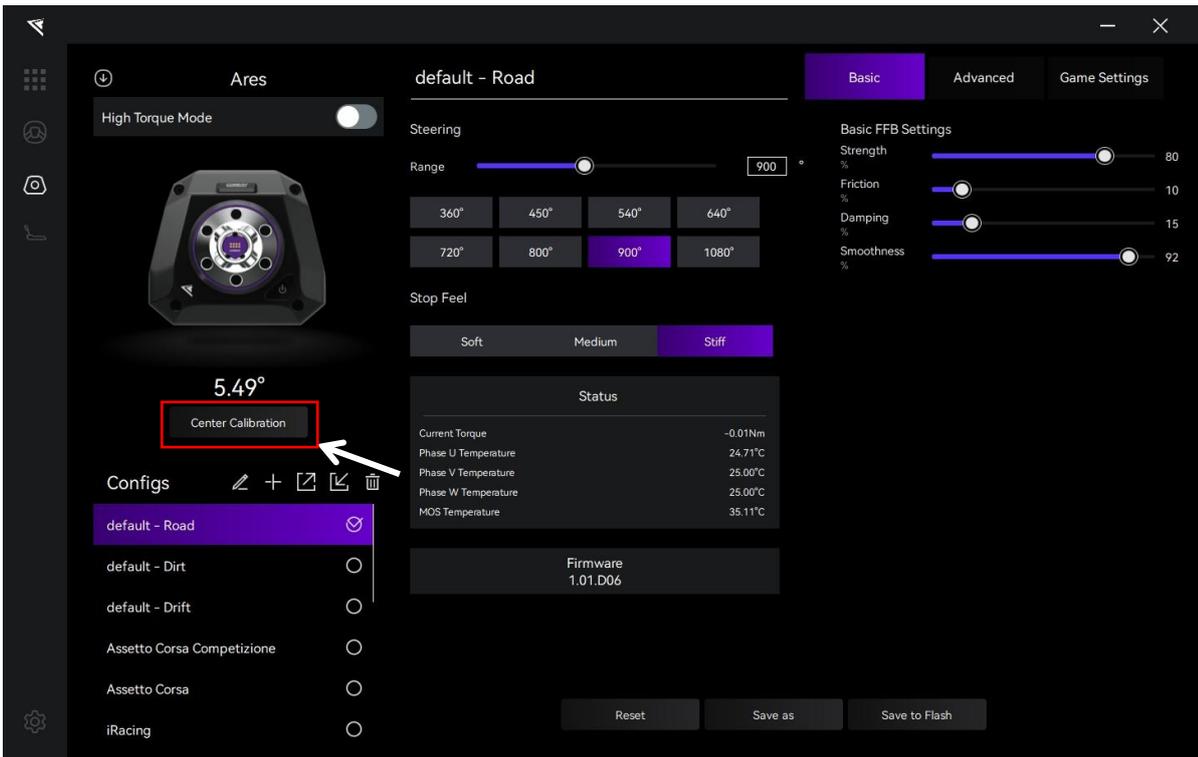


Under "Boost" mode, please further pay attention to safety:



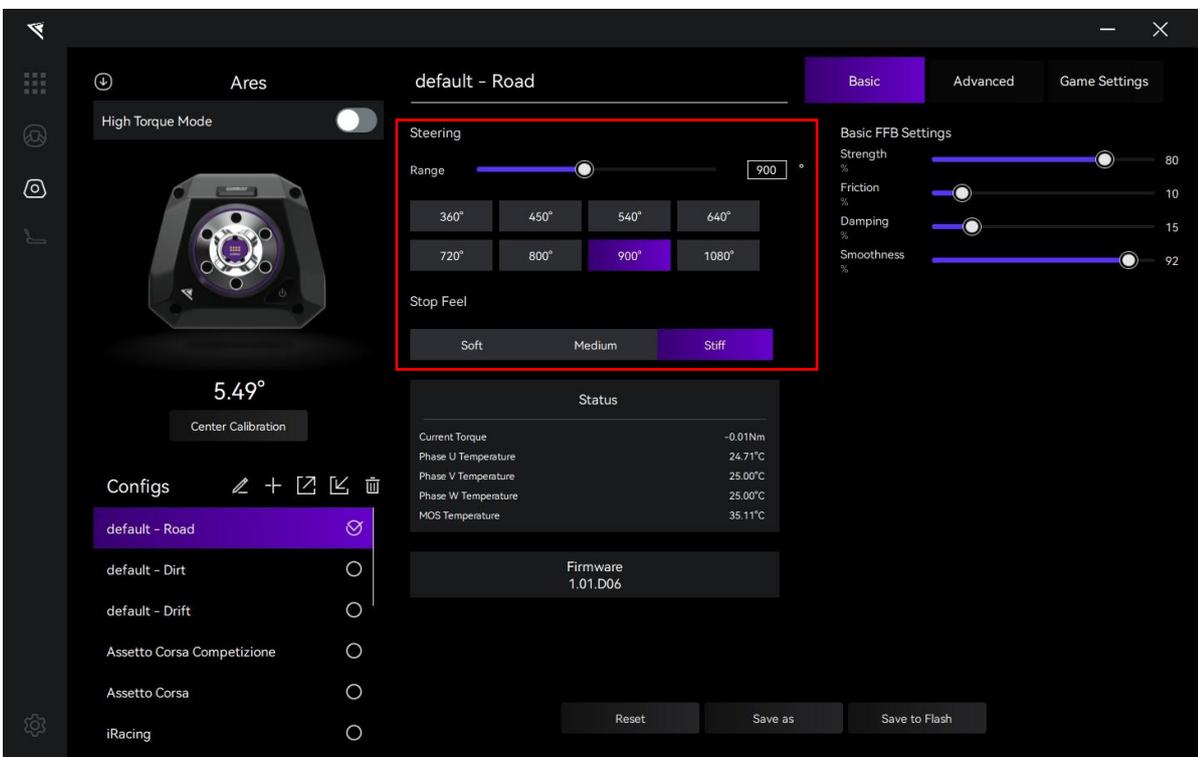
Center Calibration:

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.



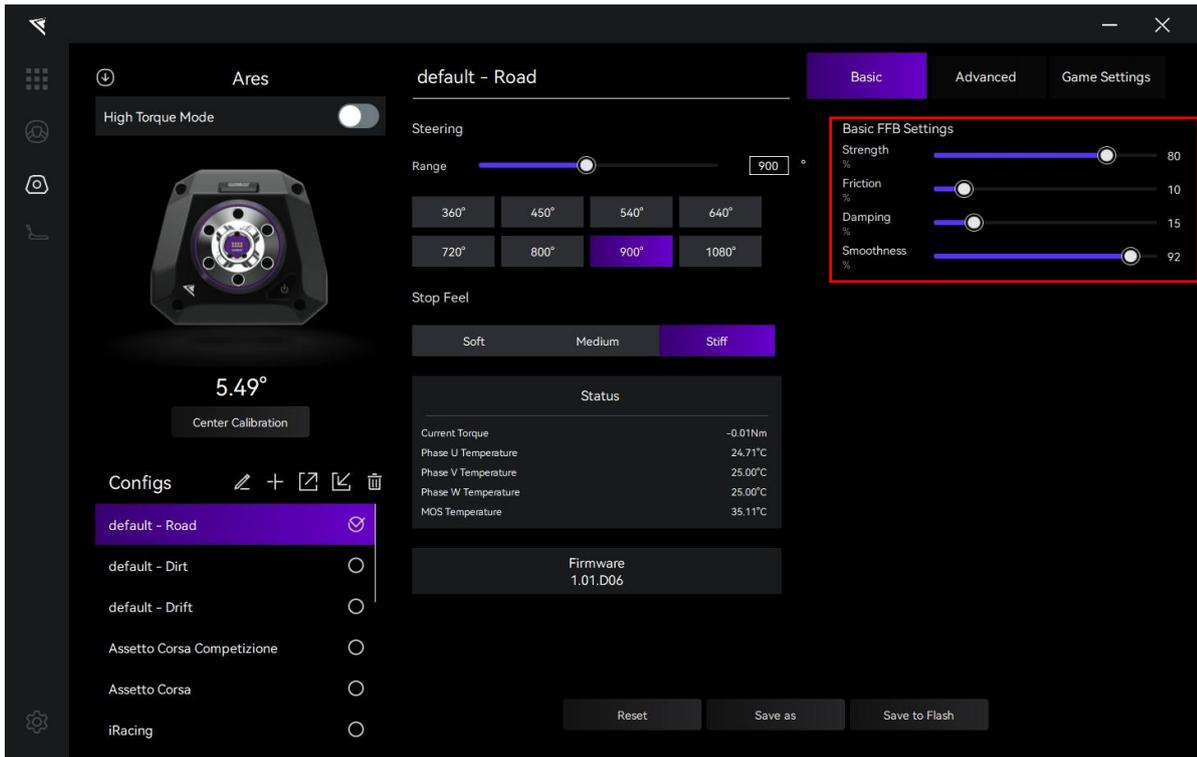
Steering & Stop Feel Settings:

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

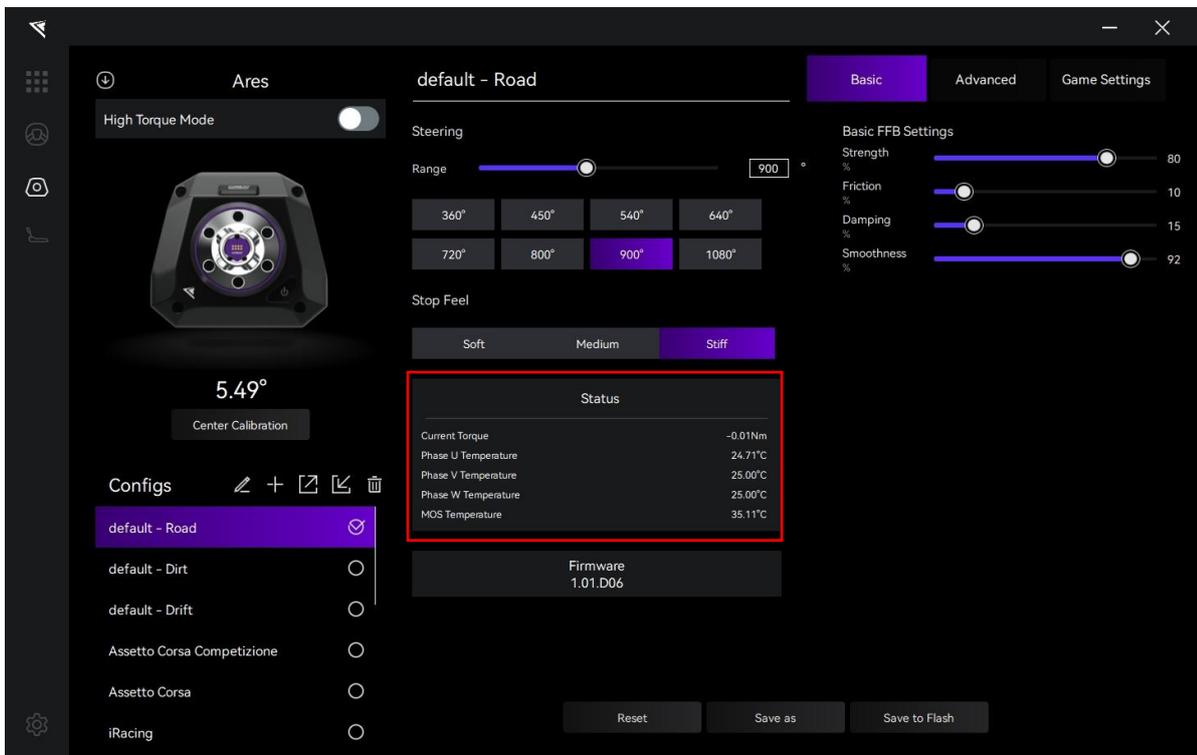




Basic FFB Settings:



Real-time Status:





Current Firmware Version:

The screenshot shows the 'Ares' software interface with the 'default - Road' configuration selected. The 'Firmware' version is highlighted in a red box as '1.01.D06'.

High Torque Mode:

Steering Range: 900°

Steering Range Options: 360°, 450°, 540°, 640°, 720°, 800°, 900°, 1080°

Stop Feel: Soft, Medium, Stiff

Status:

Current Torque	-0.01Nm
Phase U Temperature	24.71°C
Phase V Temperature	25.00°C
Phase W Temperature	25.00°C
MOS Temperature	35.11°C

Basic FFB Settings:

Strength %	80
Friction %	10
Damping %	15
Smoothness %	92

Configs:

- default - Road (selected)
- default - Dirt
- default - Drift
- Assetto Corsa Competizione
- Assetto Corsa
- iRacing

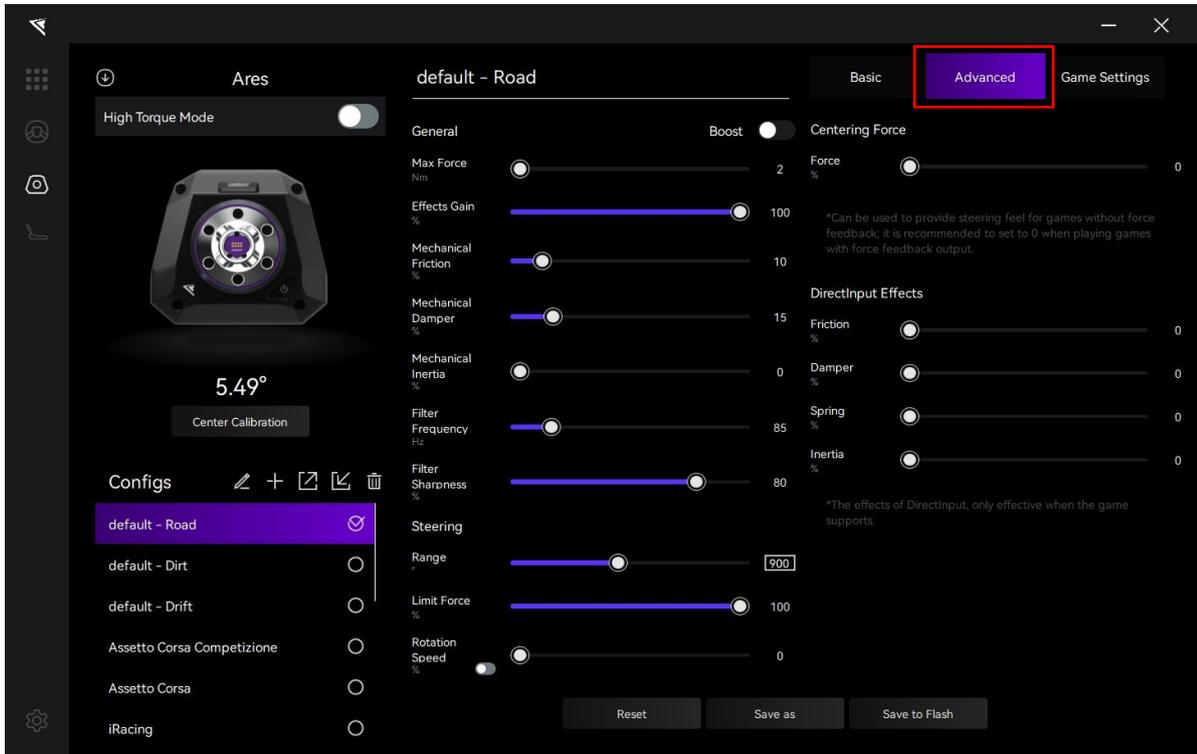
Buttons: Reset, Save as, Save to Flash



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 or enable the "Boost" mode.

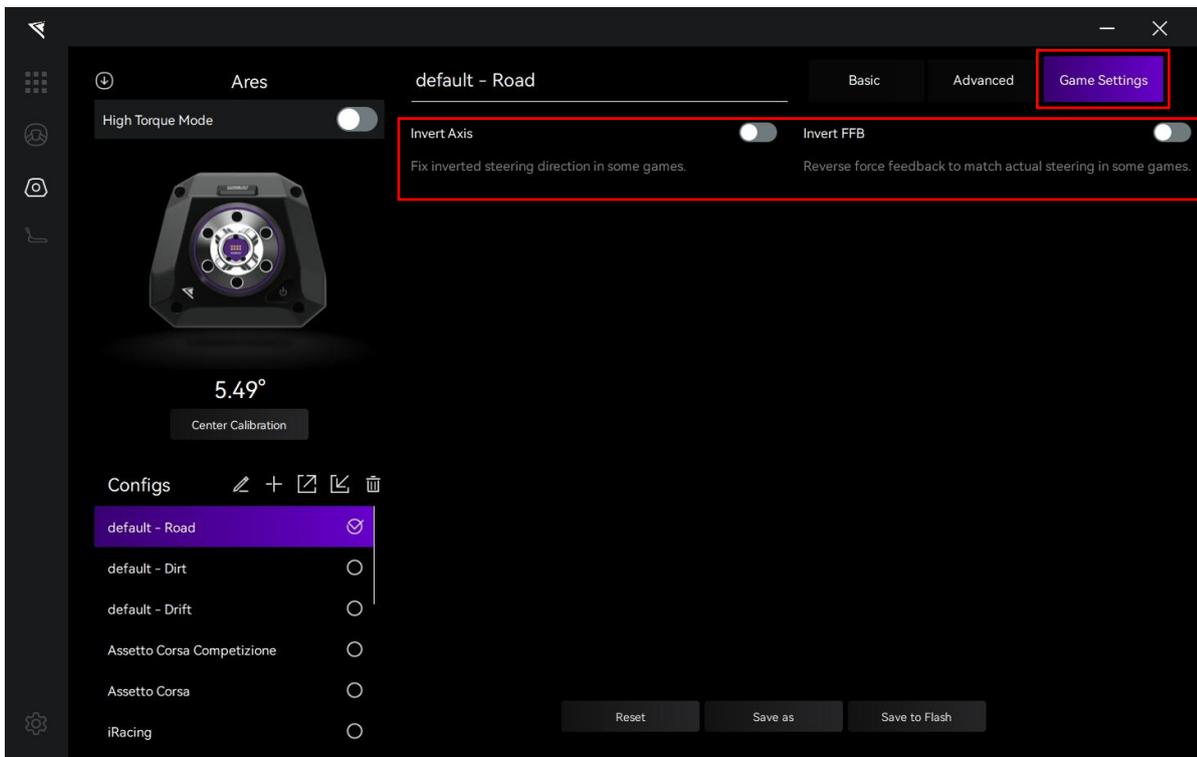




2.5 Game Settings

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.

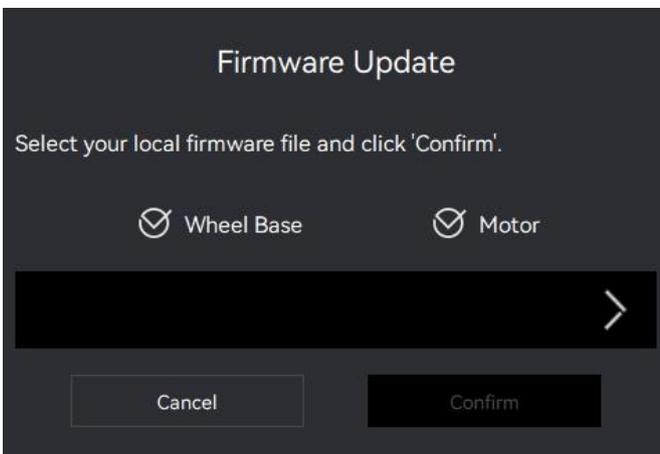
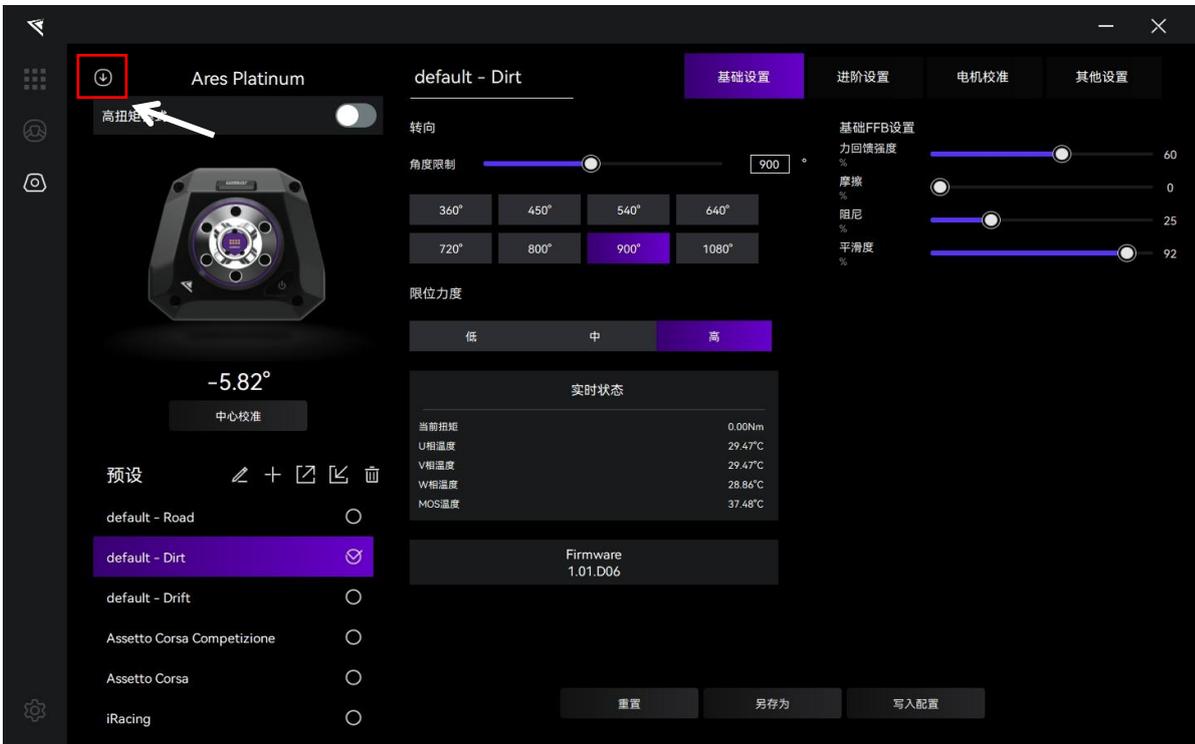




2.6 Firmware Update

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.

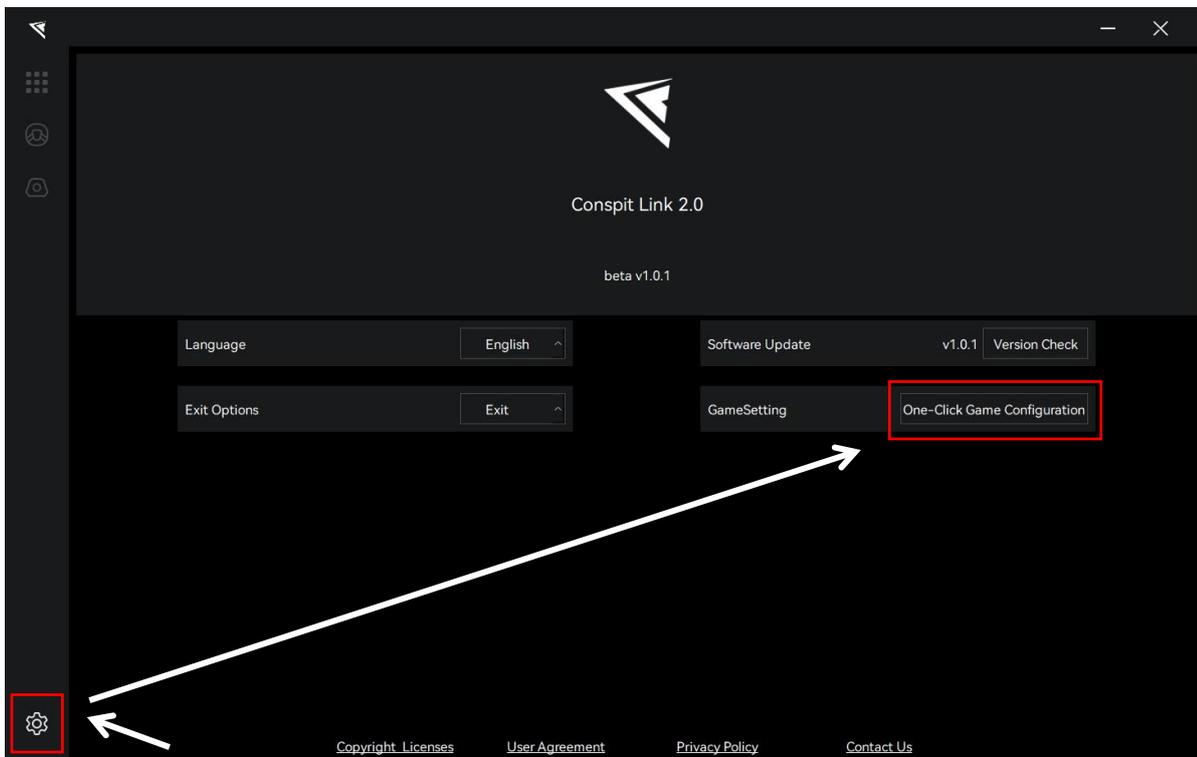
Note:

- 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

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	<input checked="" type="checkbox"/>
Assetto Corsa Competizione	<input checked="" type="checkbox"/>
Automobilista 2	<input checked="" type="checkbox"/>
Forza Horizon 4	<input checked="" type="checkbox"/> (Special configuration is required)
Forza Horizon 5	<input checked="" type="checkbox"/> (Special configuration is required)
Dirt Rally 2.0	<input checked="" type="checkbox"/> (Special configuration is required)
Dirt Rally	In process of development and adaptation
Dirt 4	In process of development and adaptation
EA WRC	<input checked="" type="checkbox"/> (Special configuration is required)
F1 2020	<input checked="" type="checkbox"/> (Need to disable steering assistance)
F1 22	<input checked="" type="checkbox"/> (Need to disable steering assistance)
F1 23	<input checked="" type="checkbox"/> (Need to disable steering assistance)
F1 24	<input checked="" type="checkbox"/> (Need to disable steering assistance)
rFactor 2	<input checked="" type="checkbox"/> (Special configuration is required)
Rennsport	<input checked="" type="checkbox"/> (Special configuration is required)
Le Mans Ultimate	<input checked="" type="checkbox"/>
BeamNG	<input checked="" type="checkbox"/>
KartKraft	In process of development and adaptation
Project Cars 1	In process of development and adaptation
Project Cars 2	In process of development and adaptation
WRC 8	<input checked="" type="checkbox"/>
WRC Generations	<input checked="" type="checkbox"/>
Trackmania 2020	In process of development and adaptation
DCS World	In process of development and adaptation
IRacing	<input checked="" type="checkbox"/>
Euro Truck Simulator 2	<input checked="" type="checkbox"/>
RaceRoom	<input checked="" type="checkbox"/>
Live for Speed	In process of development and adaptation
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.

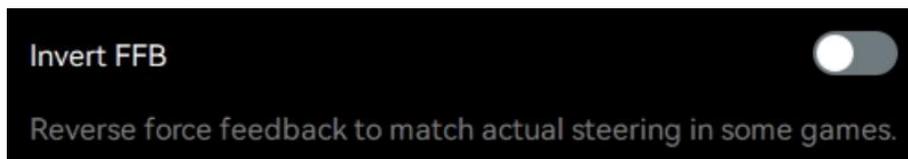
EA WRC & Dirt Rally 2.0 Special Configuration:

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. Troubleshooting Guide

I. What to do if the base is not recognized in the driver?

- 1) Ensure the USB data cable of the base is connected to the computer, and the 48V power supply is connected to the base.
- 2) Press Win+R on the keyboard to open the Run dialog, input "joy.cpl" and confirm. Navigate to the Game Controllers page to check if there's a device named "CONSPIT Ares" or "CONSPIT Ares Wheel Base".
- 3) If the device is present but still not recognized in the driver, please contact customer service.
- 4) If the device is not listed, try unplugging the USB and power supply from the base, then reconnect them (it's recommended to insert the power supply first, followed by the USB). If the device is recognized in the Game Controllers after replugging, it should also be recognized in the driver.

II. The driver displays the angle, but modifying parameters has no effect, and there's no force feedback in the game?

- 1) Observe the status indicator on the front of the base. If it's blue (steady on), it indicates the motor is in idle mode and cannot provide any force feedback. Press the indicator button to turn it green (steady on), allowing the base to work normally.
- 2) If the indicator light is slowly flashing blue, and pressing the indicator button cannot turn the indicator light green (steady on), please unplug both the USB cable and the 48V power adapter socket end simultaneously (Do not perform hot swapping on the 48V power supply socket of the base). Wait for 10 seconds before reconnecting them. Pressing the button again at this point should make the indicator light turn green (steady on), indicating that the base is now working properly. If the base still fails to function normally, please refer to the pop-up guidance in the driver software for solutions, and then press the indicator button again to try to fix it yourself. If it cannot be fixed, please contact CONSPIT official customer service.
- 3) If the indicator light is flashing blue quickly, it indicates that the motor is in an abnormal state. It is recommended to stop using it immediately and contact CONSPIT official customer service.

III. The base turns green after pressing the indicator button but keeps rotating in one direction?

- 1) Please confirm that the current firmware version has been updated to the latest version available on the CONSPIT official website.
- 2) If the base has mistakenly entered an angle limit overrun state and needs to return to the normal angle range to function correctly. Click "Center Calibration" in the driver to stop it.

IV. No base angle display in the driver, and cannot bind steering input axis in the game?

- 1) Press Win+R, input "joy.cpl", and confirm to open the Game Controllers page. Check for "CONSPIT Ares" or "CONSPIT Ares Wheel Base". Select the device, double-click or click "Properties" in the bottom right, rotate the base axis, and observe if the X-axis changes on the test page.
- 2) If there's a change but it's not displayed in the driver, please contact CONSPIT official customer service.
- 3) If there's no change, try unplugging and reconnecting the USB and power supply (power supply first, then USB), then press the indicator button to turn it green (steady on) for normal operation.

V. Everything is normal in the driver, but cannot bind steering in the game?

- 1) If the driver is functioning correctly, and the base's front indicator is green (steady on), the base is working normally, and steering should be bindable in the game.



- 2) If binding fails, follow the game's instructions for steering binding or restart the game.
- 3) Press Win+R, input "joy.cpl", and confirm to open the Game Controllers page. Check for "CONSPIT Ares" or "CONSPIT Ares Wheel Base". Select the device, double-click or click "Properties" to enter the device properties page. If prompted with "Game Controller Connection Incorrect," try restarting your computer.

VI. The base indicator is cyan, modifying parameters in the driver has no effect, and cannot bind steering in the game?

- 1) Restart the driver. The indicator should turn blue (steady on), then press the button to turn it green (steady on) for normal operation.
- 2) If the indicator automatically turns cyan upon USB reconnection, ensure CONSPIT LINK 2.0 driver software is up-to-date. Upgrade the base firmware to the latest version to resolve the issue.

VII. Switching base configs in the driver has no effect on the feel?

- 1) Config selection in the settings page of the driver is only a preview. Click the next to the config name to apply it with a "√," which sends parameters to the base.

VIII. Strange force feedback feel in rFactor2 or Rennsport, and the base keeps rotating to the limit after slight steering?

- 1) Due to force feedback mechanics, some games require setting force feedback to reverse (e.g., -100% in rFactor2, Reverse On in Rennsport) for proper output.
- 2) Alternatively, select "Invert FFB" in the Game Settings page of the driver for the same effect.
- 3) If the base keeps rotating due to game settings, unplug and reconnect the USB and power supply to reset it.

IX. No force feedback in DiRT Rally 2.0 or EA Sports WRC, or steering wheel doesn't respond smoothly?

- 1) Click "One-Click Game Configuration" in the Settings page of the driver. After "Configuration Successful" or "Already Exists, No Need to Configure," restart the game.
- 2) For unresponsive steering, set the base's dead zone to 0 in the game's input device settings.

X. In iRacing, the steering wheel shakes left and right while parked, and the shaking increases?

- 1) Check "Reduce force when parked" in iRacing's settings to resolve this.
- 2) Increasing the base's "Mechanical Damper" in the driver can also eliminate this issue.

XI. No force feedback in RaceRoom after pausing and resuming the game?

- 1) In the game's CONTROLS page, under FORCE FEEDBACK settings, set all three immersion settings to at least 1%. Re-enter the track from the main menu to restore force feedback.

XII. No force feedback in Forza Horizon 4 or 5?

- 1) Contact customer service to obtain inputmappingprofiles.zip. Replace the file in the media folder of the game's root directory, relaunch the game, and bind inputs for normal force feedback.

XIII. Firmware update stuck at 0%?

- 1) Perform firmware updates while closing other software that might occupy serial ports (e.g., other brand's device driver software).



- 2) If stuck for over half a minute, try unplugging and reconnecting the USB cable or restarting the driver. Select the base firmware file again to resume the update.
- 3) If the cyan light is steady on, try unplugging and reconnecting the USB cable or restarting the driver. Select the base firmware file again to resume the update.

XIV. What should I do if the base axis input turns to +180° after restarting the computer, and there is no corresponding change when turning the steering wheel?

- 1) It is generally because the USB 2.0 port is used instead of the USB 3.0 port, or a powered USB port is not utilized. You can try switching to use a USB power supply port on the motherboard, such as a red USB port.



6. Revision History

Date	Version	Release Notes
2024.11.15	V1.31	Added the 14th item to the Troubleshooting Guide.
2024.09.13	V1.3	Precautions for Power Supply Usage added; The driver software is now compatible with WRC Generations.
2024.09.03	V1.2	Indicators lights updated.
2024.09.02	V1.1	First release

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