

# XGT ULTIMATE | MANUAL

Injection moulded polyurethane replaceable grips

Aluminum alloy rear enclosure and carbon fiber panel

Supports wireless SimHub dashboards

4.3 inches IPS LCD with 800x480 pixels and 60 fps

Scratch resistant Gorilla Glass, up to 2mm thick.

3+15+3 RGB LED rpm bar and buttons

Optional non-contact hall clutch and optional paddles

Clutch with adjustable bite point

Up to 51 buttons and 2 axes

70mm quick release holes and bolt holes

GX12 threaded USB port



# Notes

- This racing wheel has screen components, so it is important to avoid pressing the screen during use and minimize contact with it.
- When connecting the racing wheel to the base, make sure that it is firmly attached before turning off the power.
- Due to the large number of RGB LEDs on the steering wheel, its power consumption is very high. Please ensure that the steering wheel is directly connected to a USB port on the back of the PC via the GX12 cable to meet the power requirements. If you need to extend the USB connection, be sure to use a USB extension cable or USB hub with an external power supply. Another option is to reduce the brightness of the RGB lights or turn them off completely.
- When using the wireless functionality of the steering wheel, it is advisable to place the wireless receiver within approximately 1 meter or closer to the steering wheel. Otherwise, it may result in a decrease in wireless speed. You can check the wireless quality through the steering wheel menu. Green indicates good wireless quality, orange indicates average wireless quality, which may cause steering wheel delay, and red indicates poor wireless quality with noticeable steering wheel delay.
- Any modifications, disassemble, tampering, changes or unauthorized uses of the product will void the warranty.
- The wireless function of the XGT Ultimate operates on 2.4G frequency, so setting your environment's WiFi to 5G frequency can effectively avoid interference with the XGT Ultimate. If you can only use 2.4G WiFi, please ensure that the Wireless Kit is at least 1.5 meters away from the WiFi antenna and try to set the WiFi channel to 1-6 as much as possible.
- For bases that may have noticeable EMI issues, such as the Fanatec DD1/2, the optimal choice is to connect the steering wheel using an externally powered USB hub, along with a USB isolator. Additionally, it is recommended to ensure that the DD1/2 has an additional grounding cable (<https://fanatec.com/us-en/faq/details/id/72>).
- Fanatec compatibility has only been tested with driver and hardware versions prior to May 1st, 2024.
- Leoxz is responsible for revising and explaining this manual, and reserves the right to make changes or corrections to the information and explanation provided without prior notice and without any responsibility.

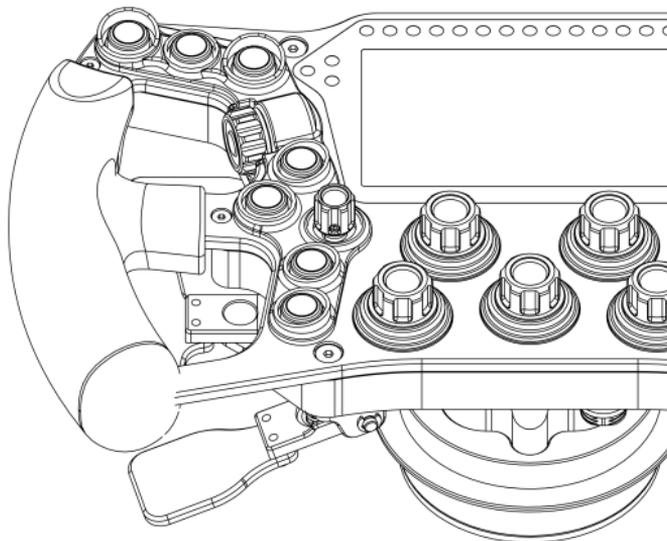
## What's included

- XGT Ultimate Steering Wheel (QR and Wireless kit are optional)
- USB-GX12 Cable
- Custom Stickers
- Nylon Tweezers
- 6mm height paddle spacers/M3x14 bolts (You can choose whether to install it based on the size of your hand, x4 for Shifter Only and Shifter & Clutch versions, x8 for Shifter & Clutch & Option version)

# Interface

21 RGB LED Bar compatible with Simhub  
19 RGB LED Buttons compatible with Simhub  
800x480 IPS LCD compatible with Simhub

14 Momentary button  
2 Thumb rotary encoder  
5 Front rotary encoder with push button  
2 Multi-directional joystick with integrated encoder  
2 non-contact hall shifter paddle  
2 Optional non-contact hall clutch paddle  
2 Optional non-contact hall option paddle  
Optional multiple optional types of QR



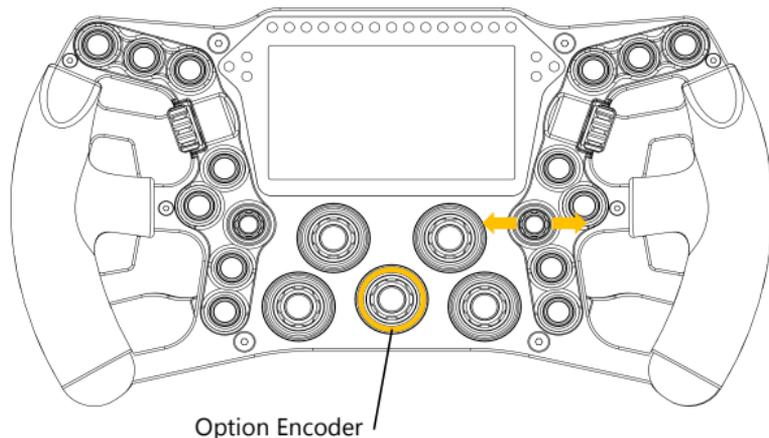
- Keep in mind that on the page for the Windows USB Gaming device, some of the buttons will not show. This is due to the Windows graphic interface's limitation in detecting more than 32 buttons.

## Quick Controls

Long-pressing the option encoder allows you to access the quick control menu, enabling you to switch the steering wheel between different modes(USB mode, Wireless mode and Fanatec mode).

After entering the quick control menu, you can use the left and right buttons on the right multi-directional joystick to select different menus. Rotating the multi-directional joystick allows you to choose various parameters.

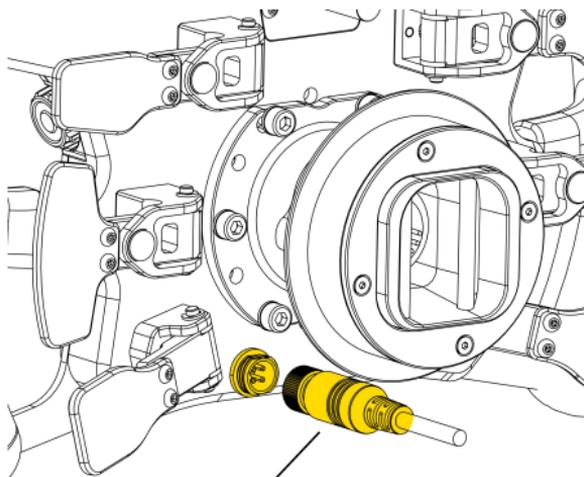
When in the quick control menu, you can exit the menu by pressing the option encoder again.



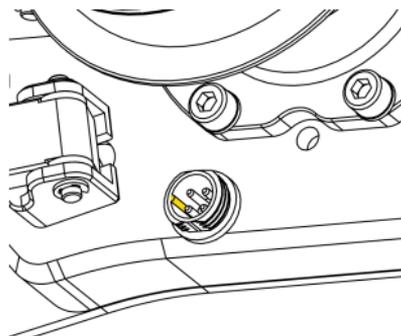
## Wheel Mode-USB

XGT Ultimate can only be connected via USB cable and requires a minimum input power of 5V 1.0A to ensure proper operation. Otherwise, unexpected errors may occur.

The USB-GX12 cable will ensure a stable and reliable connection.



USB-GX12 Cable



Make sure that the USB-GX12 cable is aligned with the raised mark of the GX12 interface, otherwise it will cause permanent damage to the socket if it is inserted forcibly.

## Wheel Mode-Wireless

To enter this mode, the steering wheel must have the Wireless Kit installed, and the XGTU Dongle should be plugged into the PC USB port.

Long-press the XGTU Dongle button to enter pairing mode, simultaneously switching the quick control menu to the <Mode> menu. Press and hold down the right Multi-directional joystick to initiate pairing for the steering wheel. Once the pairing is successful, the steering wheel screen will display "Pairing completed". **The steering wheel comes paired from the factory, and under normal circumstances, users do not need to pair it again.**

The wireless mode of the XGT Ultimate allows the steering wheel to operate without any USB connection. The ultra-low 2.4G latency communication enables the steering wheel to perform almost all wired connection functions, including game controller input and Simhub dashboard.

Recommend placing the XGTU Dongle as close to the steering wheel as possible. In environments with complex electromagnetic interference, it may be necessary to position the XGTU Dongle within 0.5 meters to ensure optimal wireless signal.

The wireless function of the XGT Ultimate operates on 2.4G frequency, so setting your environment's WiFi to 5G frequency can effectively avoid interference with the XGT Ultimate. If you can only use 2.4G WiFi, please ensure that the Wireless Kit is at least 1.5 meters away from the WiFi antenna and try to set the WiFi channel to 1-6 as much as possible.

- \* In this mode, you can operate without using a USB cable, but the steering wheel must be powered using a QR with power supply functionality. If the base cannot supply power to the steering wheel through the QR, this mode is not available.
- \* If using Simagic, Moza, or Fanatec base, the steering wheel can be powered wirelessly through QR. For the Simagic base, since it cannot provide a high-power supply to the steering wheel, to ensure stable operation of the wheel, it is necessary to reduce(set 10%) or even turn off the button Brightness to minimize the power consumption of the steering wheel.
- \* The Wireless Kit is not included with the steering wheel and must be purchased separately.

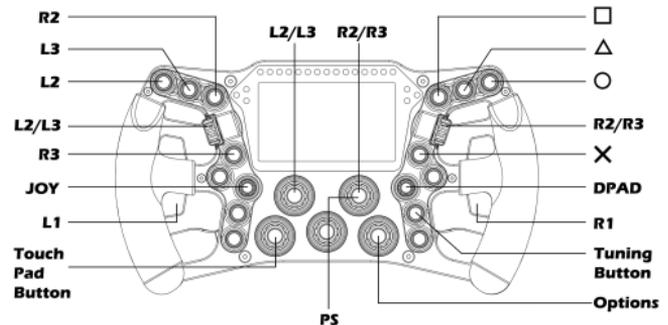
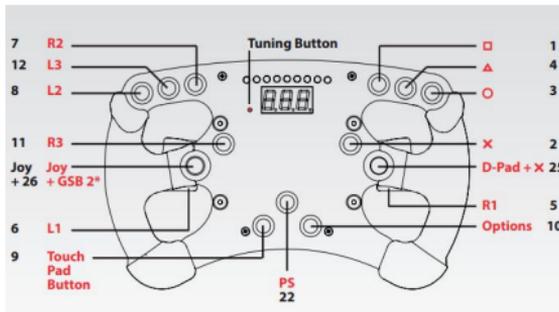


Wireless Kit

# Wheel Mode-Fanatec

In this mode, the steering wheel does not require a USB connection, it can communicate directly with the Fanatec base. You can use the steering wheel to access the Fanatec Tuning Menu and configure settings on the Fanatec base.

## Fanatec Mode Button Mapping

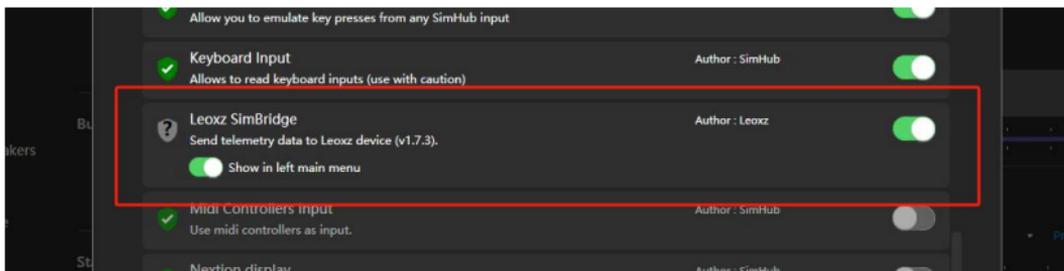


Due to the limited number of Fanatec buttons, only a subset of buttons on the steering wheel is functional. Additionally, Fanalab is required to enable the steering wheel screen (limited to displaying gear and speed) and the RPM LED Bar to operate correctly.

\* Fanatec compatibility has only been tested with driver and hardware versions prior to May 1st, 2024.

# SimBridge Plugin For Simhub

XGT Ultimate will be compatible with simhub through simbridge, enabling dashboard and LEDs customization. To use it, you need to place SimBridge in the Simhub installation directory and restart Simhub for it to take effect.

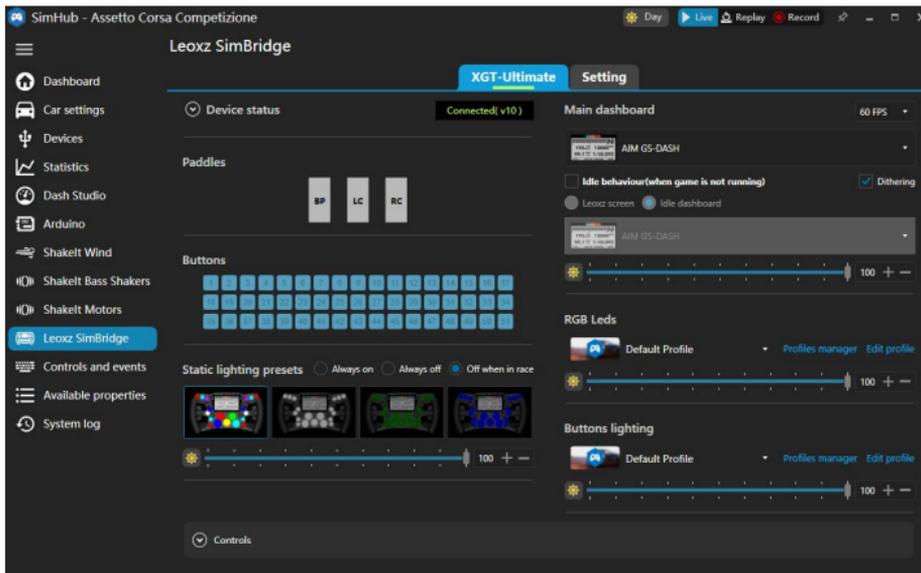


- Download the latest version on the website [www.leoxz.com](http://www.leoxz.com). The latest version of the SimBridge interface may differ slightly from the images in the manual.

# Simhub Compatibility

XGT Ultimate is a plug-and-play device, so you can connect it to SimHub without having to complicatedly install any drivers.

You can display various dashboards on screen and change brightness through SimHub, and you can also achieve various lighting effects by creating different profiles.

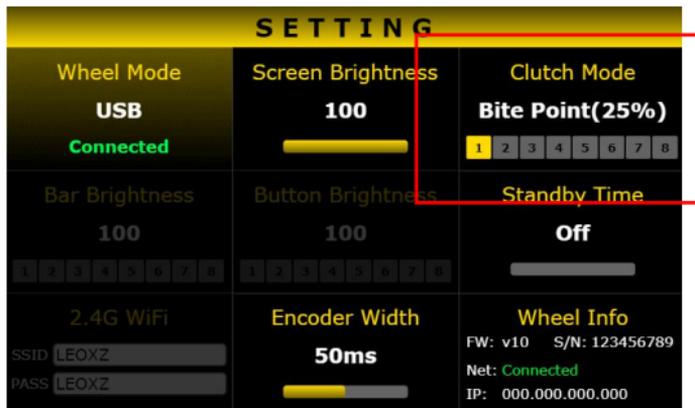


# Paddles Functionality

The optional clutch paddles can be configured for axis mode and bite point mode.

All paddles have self-calibrate functionality to ensure high accuracy. This function requires that the paddles be pressed once (from minimum position to maximum position) each time the steering wheel is started.

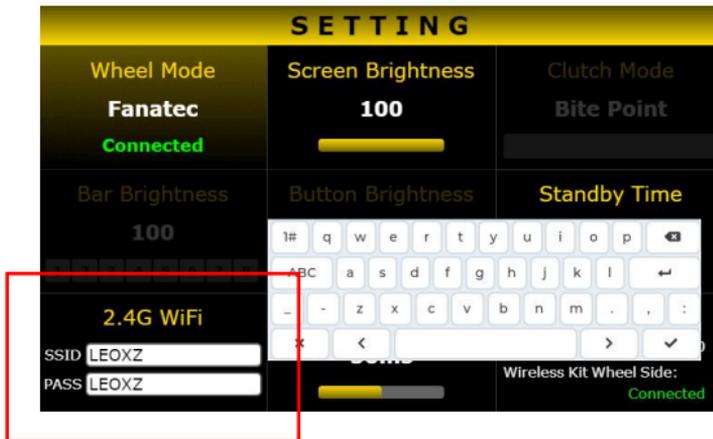
Enter the menu on the steering wheel and select "Clutch Mode", then set it to "Bite Point". After that, press the clutch paddle and rotate the right multi-directional joystick to adjust the bite point value.



# Fanatec Mode

The XGT Ultimate can be switched to Fanatec mode, in which the steering wheel will emulate Fanatec steering wheel and activate the built-in dashboard. This mode is primarily used to allow the steering wheel to work on PS4/5.

Updating the built-in dashboard requires the steering wheel to be connected to a Wi-Fi network. Please ensure that both the PS4/5 and the steering wheel are connected to the same 2.4GHz Wi-Fi network.



Use the right Multi-directional joystick to move the cursor to the <2.4G WiFi> menu. A keyboard will pop up for entering the Wi-Fi name and password. Use the left Multi-directional joystick to control the keyboard, moving the cursor up, down, left, and right, and press to confirm the input.

- The steering wheel can only connect to the 2.4GHz WiFi signal of the router. Please make sure that your router is capable of broadcasting a 2.4GHz frequency WiFi signal, or else the steering wheel will be unable to connect to the network.
- The maximum length for both the WiFi SSID and password input is 30 characters. Any SSID or password exceeding 30 characters will not be supported.

# SimHub Controls

By binding any controller or keyboard input, you can quickly control the XGT Ultimate dashboards switching, screen and LEDs brightness, clutch paddles and bite point value.

The image shows the SimHub Controls interface. On the left is a list of controls, and on the right is a 'Pick a control' dialog box.

**Controls List:**

- Cycle next dash template [Click to configure](#)
- Cycle previous dash template [Click to configure](#)
- Cycle only through favorites dash
- Show next dash screen [Click to configure](#)
- Show previous dash screen [Click to configure](#)
- Show first dash screen (for the current in game or idle mode) [Click to configure](#)
- Trigger dash action A [Click to configure](#)
- Trigger dash action B [Click to configure](#)
- Trigger dash action C [Click to configure](#)
- Trigger dash action D [Click to configure](#)
- Screen brightness + [Click to configure](#)
- Screen brightness - [Click to configure](#)
- Brightness change steps 1 [+](#) [-](#)
- Leds brightness + [Click to configure](#)
- Leds brightness - [Click to configure](#)
- Brightness change steps 1 [+](#) [-](#)

**Pick a control Dialog:**

Pick a control

Waiting for input

Press type: ShortAndLongPress

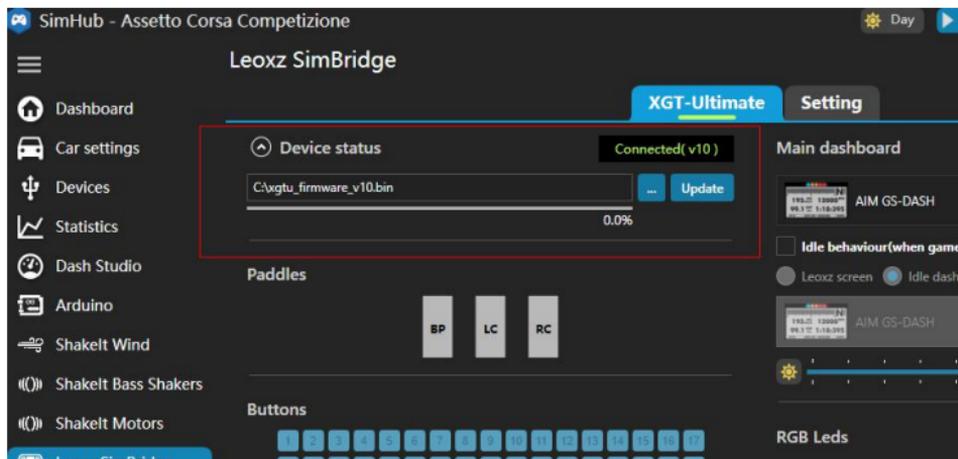
[SAVE](#) [Cancel](#)

**Available input plugins (You can manage them from simhub settings)**

Controllers input	Enabled
Keyboard Input	Enabled
Midi Controllers Input	Disabled
Control mapper	Disabled

# Firmware Update

Through the “Setting” menu of Simbridge, you can check the current firmware version of XGT Ultimate and update the latest firmware. Once the update is completed, XGT Ultimate will automatically restart.

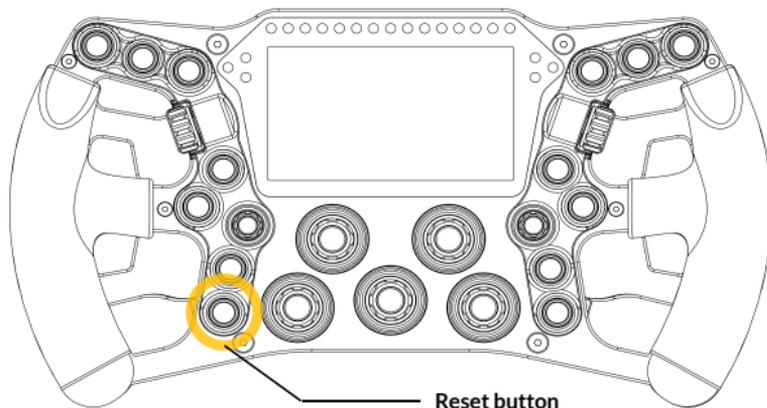


- You can download the latest firmware on the website [www.leoxz.com](http://www.leoxz.com). Do not operate the steering wheel during the update process, as it may cause unexpected errors.

# Hardware Reset

If the firmware update fails and the steering wheel cannot start normally, please try hardware reset to force the steering wheel to enter Bootload mode and update the firmware again.

1. Disconnect the power to the steering wheel to keep the steering wheel in a power-off state.
2. Press the Reset button.
3. While holding down the Reset button, insert the USB cable to start the steering wheel. If the button is still pressed when starting, the steering wheel will be forced into Bootload mode.
4. Try updating the firmware again.



**LEOX1**

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