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> [PXN V10 Ultra Gaming Steering Wheel & Pedals Instruction Manual](#)

PXN V10 Ultra

PXN V10 Ultra Gaming Steering Wheel & Pedals Instruction Manual

Model: V10 Ultra

Introduction	What's in the Box	Product Overview	Setup	Software & Customization
Game	Calibration	Operating Instructions	Maintenance	Troubleshooting
Compatibility				Specifications

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your PXN V10 Ultra Gaming Steering Wheel & Pedals. Please read this manual thoroughly before use to ensure optimal performance and longevity of your device. The PXN V10 Ultra is designed to deliver an immersive sim racing experience across multiple platforms including Xbox, PS4, and PC.

2. WHAT'S IN THE BOX

Verify that all components listed below are included in your package:

- Racing Wheel × 1
- Pedals × 1
- Clamp × 1
- Power Adapter × 1

Easy Expansion Setup

- Multiple USB Ports for Accessory Connections
- Stable Power Input for Consistent Performance
- Future-Proof Expandable Design
- Simple Plug & Play Connection

※Note:

When connecting the wheel to your console or PC, insert the main USB cable into the PC/console port. Press the Power Switch on the base to turn it on.



Image: All components included in the PXN V10 Ultra package, showing the racing wheel, pedals, clamp, and power adapter.

3. PRODUCT OVERVIEW

The PXN V10 Ultra features a 3.2Nm direct drive servo motor for realistic force feedback, a 270mm D-shaped steering wheel with four paddle shifters, and Hall-effect pedals for precise control. It is designed for multi-platform compatibility and offers extensive customization options.

Key Features:

- **3.2Nm Direct Drive Servo Motor:** Provides ultra-realistic and fast force feedback.
- **270mm D-Shaped Steering Wheel:** Microfiber leather rim for comfort and grip, detachable design.
- **4 Paddle Shifters:** Two magnetic gear paddles and two analog clutch paddles for dual-clutch control.
- **Hall Effect Pedals:** High-accuracy throttle and brake pedals with adjustable spacing and customizable curves.
- **Multi-Platform Compatibility:** Supports Xbox One/Series, PS4, and PC (Windows 7/8/10/11).
- **17 Programmable Buttons:** For extensive control customization.
- **Intelligent Cooling System:** Built-in temperature sensors for stable performance during long sessions.
- **Aerospace-Grade Conductive Slip Ring:** Ensures stable power transmission and long-term durability.
- **Easy Expansion Setup:** Multiple USB ports for accessory connections and future-proof design.

Feel the True Precision of Racing

Ultimate Sim Racing Immersion with Direct Drive Technology

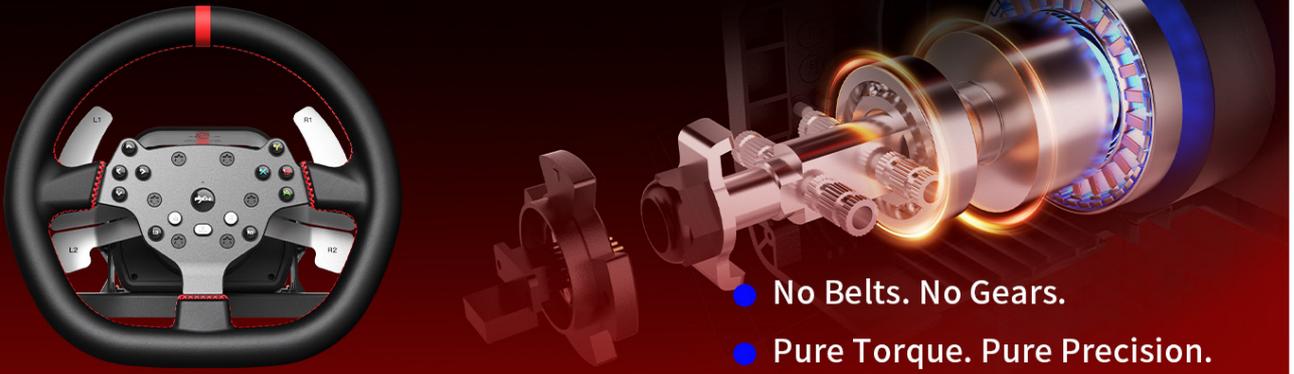
- Professional-Grade 3.2Nm Servo Motor
- 270mm Racing Wheel
- Dual Pedals with Hall Sensors
- Multi-Platform Compatibility



Image: The PXN V10 Ultra Gaming Steering Wheel and Pedals highlighting its 3.2Nm servo motor, 270mm racing rim, dual Hall-sensor

pedals, and multi-platform compatibility.

3.2Nm Direct Drive Power



- No Belts. No Gears.
- Pure Torque. Pure Precision.

Image: A detailed view of the 3.2Nm high-precision servo motor, emphasizing realistic and consistent torque for true-to-life racing control.

Why Direct Drive Outperforms Gear and Belt Systems

Feature	PXN V10 Ultra Direct Drive	Conventional Gear/Belt Drive
Force Feedback Response	Fast, precise, and ultra-realistic feedback	Slower and inconsistent feedback
Torque Transmission Smoothness	Direct power delivery with no backlash or slippage	Uneven feedback due to gear play or belt stretch
Operating Noise	Extremely quiet operation	Audible gear grinding and belt friction noise
Durability	Built for long-term use with minimal maintenance	Frequent wear of gears and belts
Control Precision	High-precision torque control for authentic racing feel	Lower accuracy and less realistic control
Realism & Immersion	Delivers true road texture and immersive racing experience	Lacks detailed surface feedback, feels mechanical

※ **Key Takeaways:** ① Direct Drive eliminates the mechanical limitations of gears and belts, providing smooth and accurate torque delivery. ② It operates quietly without breaking immersion and offers superior long-term durability. ③ The PXN V10 Ultra is engineered for racers who demand true-to-life precision and realism in every lap.

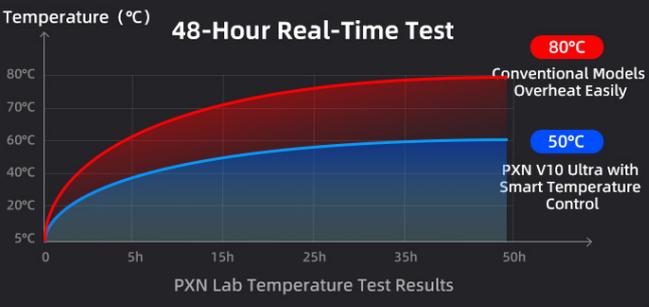
Image: The 270mm microfiber leather racing wheel rim, showcasing its detachable design and four paddle shifters (two magnetic gear, two analog clutch) for professional racing experience.

Intelligent Cooling System

Stay Cool During Long Racing Sessions
 Built-in High-Precision Temperature Sensors
 Real-Time Monitoring and Adjustment of Motor & Chip Temperature
 Stable Performance Even During Extended Rally Racing



Temperature (°C) 48-Hour Real-Time Test



80°C Conventional Models Overheat Easily

50°C PXN V10 Ultra with Smart Temperature Control

PXN Lab Temperature Test Results

Image: The PD HM throttle and brake pedals, highlighting their high-precision Hall sensor technology, adjustable spacing, and customizable

4. SETUP INSTRUCTIONS

Follow these steps to connect your PXN V10 Ultra to your desired platform.

4.1. Xbox Connection

1. Ensure the original Xbox controller is turned off before connection.
2. Connect the pedal to the wheelbase using the Type-C to Type-C cable.
3. Connect the power adapter to the wheelbase and plug it into a power socket.
4. Connect the original Xbox controller to the wheelbase using the Type-C to USB cable (Type-C end into controller, USB end into "Controller" port on wheelbase).
5. Connect the wheelbase to the Xbox console using the Type-C to USB cable (Type-C end into "PC/Console" port on wheelbase, USB end into Xbox console).
6. Press the Power button on the back of the wheelbase. The wheel will perform a self-test and return to the center. The indicator light will turn green, confirming successful setup.

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Video: Step-by-step guide on how to connect the PXN V10 Ultra Gaming Steering Wheel and Pedals to an Xbox console.

4.2. PC Connection

1. Connect the pedal to the wheelbase using the Type-C to Type-C cable.
2. Connect the power adapter to the wheelbase and plug it into a power socket.
3. Connect the wheelbase to the PC using the Type-C to USB cable (Type-C end into "PC/Console" port on wheelbase, USB end into PC).
4. Press the Power button on the back of the wheelbase. The wheel will perform a self-test and return to the center. The indicator light will turn red, confirming successful setup.

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Video: Step-by-step guide on how to connect the PXN V10 Ultra Gaming Steering Wheel and Pedals to a PC.

4.3. PS4 Connection

1. Ensure the original PS4 controller is turned off before connection.
2. Connect the pedal to the wheelbase using the Type-C to Type-C cable.
3. Connect the power adapter to the wheelbase and plug it into a power socket.
4. Connect the original PS4 controller to the wheelbase using the Type-C to USB cable (Type-C end into controller, USB end into "Controller" port on wheelbase).
5. Connect the wheelbase to the PS4 console using the Type-C to USB cable (Type-C end into "PC/Console" port on wheelbase, USB end into PS4 console).
6. Press the Power button on the back of the wheelbase. The wheel will perform a self-test and return to the center. The indicator light will turn blue, confirming successful setup.
7. Press the HOME button on the steering wheel to control the PS4 console.

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Video: Step-by-step guide on how to connect the PXN V10 Ultra Gaming Steering Wheel and Pedals to a PS4 console.

5. SOFTWARE & CUSTOMIZATION

The PXN V10 Ultra offers extensive customization through the PXN NEXUS app (for mobile) and PXN SIMRACING PC software. These tools allow you to adjust force feedback, steering angle, pedal curves, and button settings to personalize your racing experience.



Image: Screenshots of the PXN NEXUS mobile app and PXN SIMRACING PC software, illustrating the various customization options for force feedback, steering angle, and pedal curves.

6. GAME COMPATIBILITY

The PXN V10 Ultra is compatible with a wide range of racing simulation games on PC, PS4, and Xbox. Below are examples of supported titles:

PC Compatible Games:

- Assetto Corsa, Assetto Corsa Competizione, Assetto Corsa EVO
- Forza Motorsport, Forza Horizon 5, Forza Horizon 4, Forza 7
- F1 24, F1 23, F1 22, F1 21, F1 20, F1 19, F1 18
- DIRT Rally 2.0, DIRT 3, DIRT 4, DIRT 5
- Euro Truck Simulator 2, American Truck Simulator
- Project CARS 3, Project CARS 2
- WRC 10, WRC 9, WRC 8, WRC Generations
- Automobilista, Automobilista 2
- GRID, GRID Legends
- Test Drive Unlimited, Test Drive Unlimited 2
- BeamNG.drive, CarX Drift Racing, CarX Street
- Wreckfest, NASCAR Heat 5, Le Mans Ultimate
- MudRunner, Kartkraft, Kart Racing Pro, Rennsport
- Live for Speed, 18 Wheels of Steel, Copa Petrobras de Marcas, Bus Simulator 21 Next Stop
- RaceRoom Racing Experience

Xbox (One & Series) Compatible Games:

- Assetto Corsa, Assetto Corsa Competizione
- Need For Speed: Unbound
- EA SPORTS™ WRC

- Forza Horizon 5, Forza Horizon 4, Forza 7, Forza Motorsport
- F1 24, F1 23, F1 22, F1 21, F1 20, F1 19
- DIRT 5, DIRT Rally 2.0
- Project CARS 3, Project CARS 2
- WRC 10, WRC 9, WRC 7, WRC Generations
- The Crew 2, Dakar Desert Rally, World of Outlaws, OVERPASS, SnowRunner
- CarX Drift Racing, GRID, GRID Legends

PS4 Compatible Games:

- Assetto Corsa, Assetto Corsa Competizione
- DIRT Rally 2.0
- EA SPORTS™ WRC
- Need For Speed: Payback, Need For Speed: Heat
- Monster Truck Championship
- Project CARS 3, Project CARS 2
- WRC 10, WRC Generations
- F1 23, F1 22, F1 21, F1 20, F1 19, F1 18
- Drive Club, NASCAR Heat 5, The Crew 2, The Crew Motorfest
- Gran Turismo 7, Gran Turismo Sport
- DIRT 5, World of Outlaws
- FIA European Truck Racing Championship



Image: A visual representation of various racing games compatible with the PXN V10 Ultra across PC, PS4, and Xbox platforms.

Game-Specific Setup Guides:

- **PC Setup Guide for Euro Truck Simulator 2:**

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Video: Tutorial on configuring the PXN V10 Ultra for Euro Truck Simulator 2 on PC.

- **PC Setup Guide for Forza Horizon 5:**

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Video: Tutorial on configuring the PXN V10 Ultra for Forza Horizon 5 on PC.

- **PC Setup Guide for Assetto Corsa Competizione:**

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Video: Tutorial on configuring the PXN V10 Ultra for Assetto Corsa Competizione on PC.

7. WHEEL & PEDALS CALIBRATION

To ensure accurate and responsive control, it is recommended to calibrate your steering wheel and pedals. This process helps the system recognize the full range of motion for both devices.

1. Open the PXN SimRacing software on your PC.
2. Navigate to the "Home" tab.
3. Physically center your steering wheel.
4. Click the "Center" button in the software to set the wheel's true center position.
5. For pedals, fully press down and then release each pedal (clutch, brake, throttle) one by one. Observe the bars in the software to confirm their full range of motion.
6. You can fine-tune the pedal curves in the software if needed to eliminate any unwanted slack at the start of the pedal press.

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Video: Detailed guide on how to calibrate the steering wheel and pedals using the PXN SimRacing software.

8. OPERATING INSTRUCTIONS

Once connected and calibrated, your PXN V10 Ultra is ready for use. Ensure your game settings are configured to recognize the wheel as a controller. Adjust in-game force feedback and steering linearity settings to match your preference and the specific game's requirements for the best experience.

For optimal performance, ensure the wheelbase is securely mounted to a stable surface using the provided clamp or other compatible mounting solutions. The Hall-effect pedals offer precise input; experiment with adjustable pedal spacing to find your most comfortable and effective setup.

9. MAINTENANCE

To maintain the performance and longevity of your PXN V10 Ultra, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the steering wheel, pedals, and wheelbase. Avoid using abrasive cleaners or solvents that could damage the finish.
- **Storage:** When not in use, store the device in a clean, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Ensure all cables are neatly routed and not under tension to prevent damage.
- **Software Updates:** Regularly check for and install the latest firmware and software updates from the official PXN website to ensure compatibility and optimal performance.

10. TROUBLESHOOTING

If you encounter issues with your PXN V10 Ultra, refer to the following common solutions:

- **Device Not Recognized:**
 - Ensure all cables are securely connected.

- For console connections, verify the original controller is connected to the wheelbase's "Controller" port and is turned off before connecting the wheelbase to the console.
- Try connecting to a different USB port on your PC or console.
- Restart your PC/console and the steering wheel.

- **Force Feedback Issues:**

- Check in-game force feedback settings and adjust them.
- Ensure the PXN SimRacing software is updated and the force feedback settings are correctly applied.
- Perform a wheel calibration as described in Section 7.

- **Pedal Inaccuracy:**

- Perform a pedal calibration as described in Section 7.
- Check for any physical obstructions preventing full pedal travel.

- **Firmware Update Issues:**

- Ensure a stable internet connection during updates.
- Follow the instructions provided by the PXN SimRacing software precisely.
- If an update fails, try again after restarting your PC and the device.

If problems persist, please contact PXN customer support for further assistance.

11. SPECIFICATIONS

Feature	Detail
Model Number	V10 Ultra
Force Feedback Type	3.2Nm Direct Drive Servo Motor
Steering Wheel Rim Size	270mm (10.6-inch)
Steering Wheel Material	Microfiber Leather
Paddle Shifters	4 (2 Magnetic Gear, 2 Analog Clutch)
Pedal Type	Hall Effect Pedals with Adjustable Spacing
Compatibility	Xbox One/Series, PS4, PC (Windows 7/8/10/11)
Item Weight	21 pounds
Package Dimensions	17.7 x 16.9 x 12.2 inches