PXN VD4

PXN VD4 Bundle F PC Sim Racing Setup User Manual

Model: VD4 Bundle F

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your PXN VD4 Bundle F PC Sim Racing Setup. This bundle includes the PXN VD4 direct drive base, W AS racing wheel, and PD HM Brake & Throttle pedals, designed for an immersive PC sim racing experience.

2. PRODUCT CONTENTS

The PXN VD4 Bundle F package contains the following components:

- PXN VD4 Direct Drive Base
- W AS Racing Wheel (11-inch)
- PD HM Brake & Throttle Pedals
- USB Cables
- Power Adapter
- Accessories Pack (mounting hardware, tools)
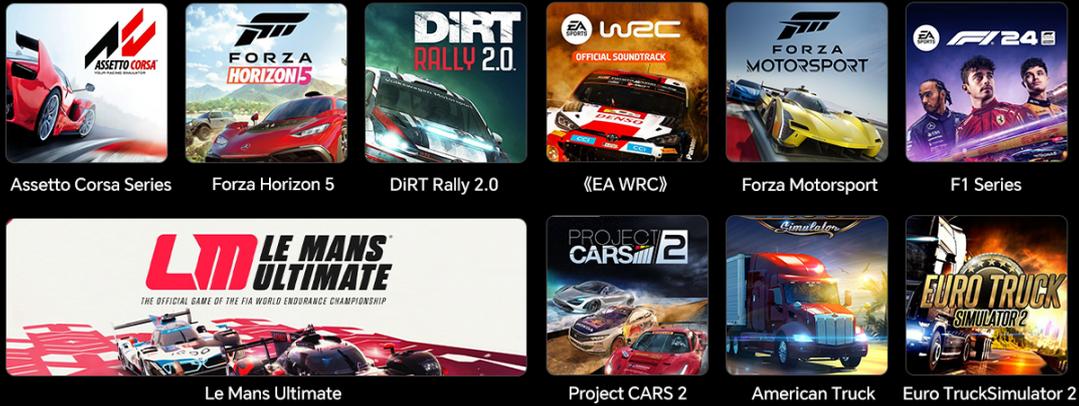- User Manual (this document)

Image: All components included in the PXN VD4 Bundle F, laid out for inspection.

3. Setup Instructions

3.1 Physical Assembly

1. **Mount the VD4 Direct Drive Base:** Secure the direct drive base to a stable desk or racing cockpit using the provided mounting hardware. Ensure it is firmly attached to prevent movement during use.

2. **Attach the W AS Racing Wheel:** Align the D1 quick-release hub on the W AS racing wheel with the shaft on the VD4 direct drive base. Push the wheel onto the shaft until it clicks into place, ensuring a secure, tool-free connection.

3. **Position the PD HM Pedals:** Place the PD HM Brake & Throttle pedals on a flat, stable surface. The pedal set features a modular design allowing for height and angle adjustments. Refer to section 4.3 for detailed pedal adjustment instructions.

4. **Connect Cables:**

   - Connect the USB cable from the VD4 direct drive base to your PC.
   - Connect the pedal unit to the VD4 direct drive base using the appropriate cable.
   - Connect the power adapter to the VD4 direct drive base and then to a power outlet.

3.2 Software Installation

The PXN SimRacing software is required for full functionality and customization. It is compatible with PC Windows 7-11.

1. **Download Software:** Visit the official PXN website to download the latest version of the PXN SimRacing software.

2. **Install Software:** Follow the on-screen instructions to install the software on your PC.

3. **Launch Software:** After installation, launch the PXN SimRacing application. Ensure your VD4 Bundle F is connected and powered on. The software should detect your device.

3.3 Compatibility

The PXN VD4 Bundle F is designed for PC simulators running Windows 7-11. Compatible games include, but are not limited to, iRacing, Assetto Corsa, F1 series, Forza Horizon, Dirt Rally 2.0, EA WRC, Forza Motorsport, Le Mans Ultimate, Project CARS 2, American Truck Simulator, and Euro Truck Simulator 2. For a comprehensive list of

compatible games or specific game setup assistance, please contact PXN Support.

Image: Logos of various PC racing games compatible with the PXN VD4 Bundle F setup.

4. OPERATING INSTRUCTIONS

4.1 VD4 Direct Drive Base

The VD4 direct drive base features a 20-pole low-inertia servo motor, delivering 4Nm continuous and 5Nm peak torque. A 24-bit magnetic encoder and Sense+ algorithm provide precise force feedback, replicating road texture, tire slip, and cornering dynamics. The aluminum chassis and intelligent thermal control system ensure stable performance.
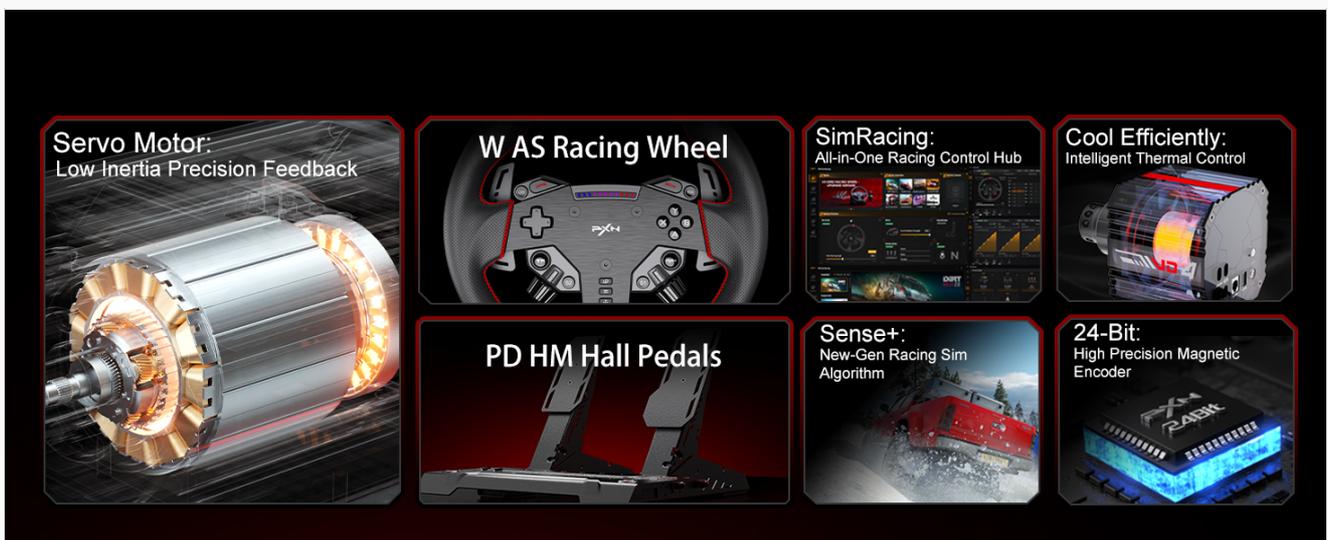

Image: Close-up view of the PXN VD4 4Nm Direct Drive Wheel Base.

60° Preset Panel Angle
Multi-Hole Design for Flexible Adjustment

- Pedal Height Adjustment for Panel Elevation
- Pedal Angle Adjustment for Tilt control
- Lateral Module Adjustment for Horizontal Positioning

Image: Diagram illustrating the PXN-Dedicated Sense+ Algorithm for realistic force feedback.

4.2 W AS Racing Wheel

The 11-inch (28cm) W AS gaming steering wheel features a lightweight aluminum alloy frame and microfiber leather grip. It includes 19 programmable buttons, 2 rotary encoders, and 4 aluminum paddle shifters (2 magnetic, 2 analog linear paddles) for comprehensive control.
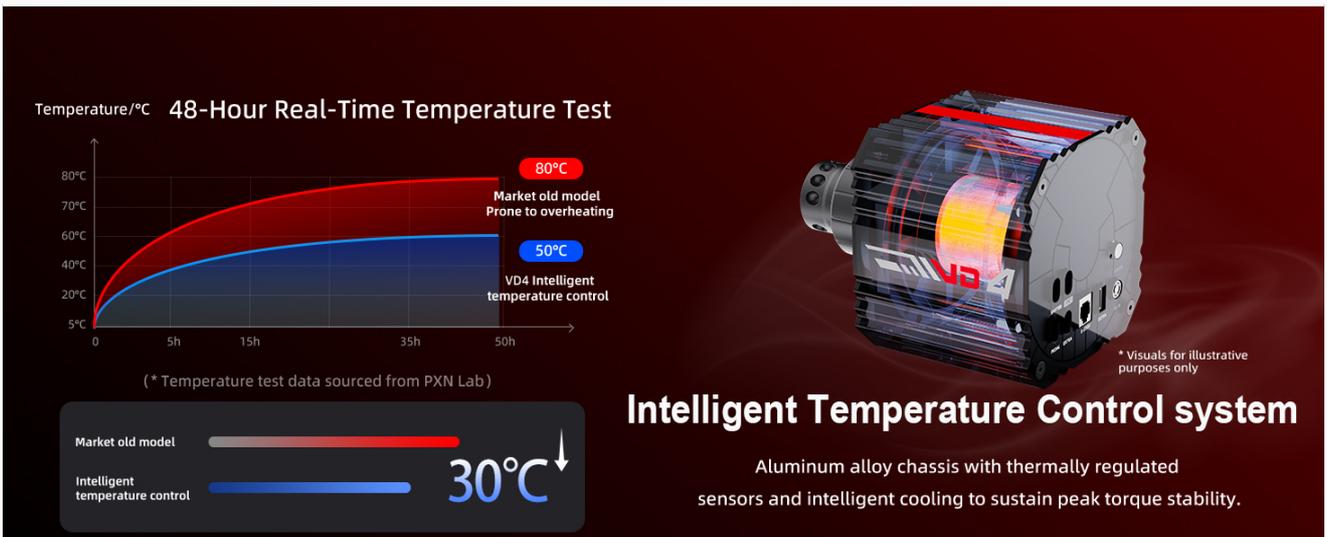

Image: The PXN W AS Racing Wheel, highlighting its design and controls.

4.3 PD HM Brake & Throttle Pedals

The PD HM PC racing pedal set features durable full-metal construction and high-precision Hall-effect sensors for both throttle and brake. The pedals offer adjustable height and angle for a customized driving experience. The modular design allows for easy disassembly.

Pedal Adjustment

The pedal height and angle can be adjusted to suit individual preferences. Use the provided tools to loosen the adjustment screws, reposition the pedal plates, and then tighten the screws securely. The 60° preset panel angle provides a flexible starting point for customization.

Image: Illustration demonstrating the adjustable tilt, height, and position of the PD HM pedals.

4.4 PXN SimRacing Software Customization

The PXN SimRacing software allows for extensive customization of your racing setup:

- **Base Torque:** Adjust the force feedback strength of the VD4 direct drive base.
- **Button Mappings:** Program the 19 buttons and 2 rotary encoders on the W AS racing wheel.
- **LED RPM Lighting:** Customize the LED lights on the wheel to display RPM or other telemetry data.
- **Pedal Curves:** Fine-tune the response curves of the throttle and brake pedals for precise control.
- **Profiles:** Create and save multiple custom profiles for different games or driving styles.

The software also allows you to launch your favorite games directly and switch configurations effortlessly.
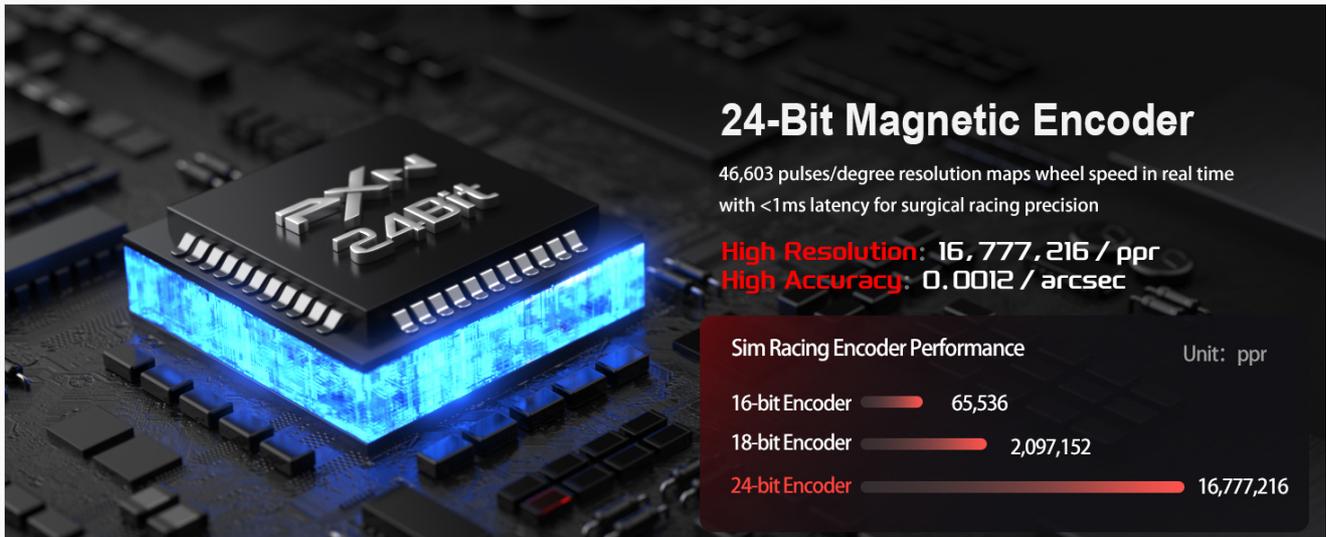

Image: Screenshot of the PXN SimRacing software interface, showing various customization options.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the surfaces of the direct drive base, racing wheel, and pedals. Avoid using abrasive cleaners or solvents.
- **Cable Management:** Ensure all cables are neatly routed and not under tension to prevent damage.
- **Storage:** When not in use, store the racing setup in a clean, dry environment away from direct sunlight and extreme temperatures.
- **Software Updates:** Regularly check the official PXN website for software and firmware updates to ensure optimal performance and compatibility.

6. TROUBLESHOOTING

- **Device Not Detected:**
  - Ensure all cables (USB, power) are securely connected.
  - Verify the power adapter is plugged into a working outlet.
  - Restart your PC and the PXN SimRacing software.
  - Try connecting to a different USB port on your PC.
- **No Force Feedback:**
  - Check force feedback settings within the PXN SimRacing software and the game you are playing.

- Ensure the direct drive base is powered on and recognized by the software.
- Verify that the game supports force feedback and that it is enabled in the game's control settings.

- **Pedals Not Responding:**

    - Ensure the pedal unit is correctly connected to the direct drive base.
    - Calibrate the pedals using the PXN SimRacing software.
    - Check game control settings to ensure pedals are correctly assigned.

- **Wheel Not Centered:**

    - Perform a calibration within the PXN SimRacing software.
    - Ensure no physical obstructions are preventing the wheel from centering.

If issues persist, please refer to the support section for contact information.

7. SPECIFICATIONS

Component	Specification
Model	PXN VD4 Bundle F
Direct Drive Base Torque	4Nm continuous, 5Nm peak
Encoder Resolution	24-bit magnetic encoder
Steering Wheel Diameter	11 inches (28 cm)
Steering Wheel Material	Aluminum alloy frame, microfiber leather
Steering Wheel Buttons	19 programmable buttons, 2 rotary encoders
Paddle Shifters	4 aluminum (2 magnetic, 2 analog linear)
Pedal Technology	Hall-effect sensors
Pedal Construction	Full-metal
Compatibility	PC Windows 7-11
Product Dimensions	11.81 x 7.87 x 15.75 inches
Item Weight	24.25 Pounds

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The PXN VD4 Bundle F is backed by a 12-month manufacturer's warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact PXN professional customer support.

You can find contact details on the official PXN website. When contacting support, please provide your product model (VD4 Bundle F) and a detailed description of the issue.