## XTOOL XTOOL D7W

# XTOOL D7W Wireless OBD2 Scanner Diagnostic Tool

**USER MANUAL**

# Introduction

The XTOOL D7W is an advanced wireless OBD2 diagnostic scanner designed for comprehensive vehicle system analysis. This tool provides extensive diagnostic capabilities, including bidirectional control, ECU coding, and over 39 special reset functions. It supports a wide range of vehicle brands and incorporates modern communication protocols like CAN FD and DoIP, offering efficient and precise vehicle maintenance and repair solutions.
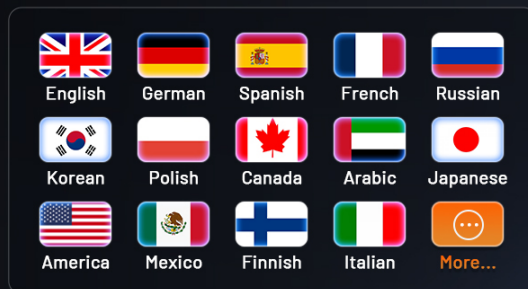
*Image: XTOOL D7W diagnostic tablet and wireless VCI module.*

# Package Contents

Verify that all items are present in the package:

- D7W Tablet (Main diagnostic unit)
- VCI Box (Vehicle Communication Interface)
- USB Cable (Type-C)
- Tablet Charger
- US Adapter
- EU Adapter
- EN Adapter
- Carry Case

*Image: Visual representation of the XTOOL D7W package contents, including the tablet, VCI box, cables, adapters, and carrying case.*

# Setup

1. **Charge the Tablet:** Connect the D7W tablet to the power adapter using the provided USB Type-C cable. Ensure the tablet is fully charged before first use.

2. **Power On:** Press and hold the power button on the tablet to turn it on.

3. **Connect VCI Box:** Plug the VCI box into the vehicle's OBD2 port. The OBD2 port is typically located under the dashboard on the driver's side.

4. **Establish Wireless Connection:** The D7W tablet features built-in Wi-Fi for direct communication with the VCI box. No external Wi-Fi router is required for this connection. The tablet will automatically attempt to connect to the VCI box.

5. **Initial Software Setup:** Follow the on-screen prompts to complete the initial software setup, including language selection and Wi-Fi network configuration for internet access (for updates).
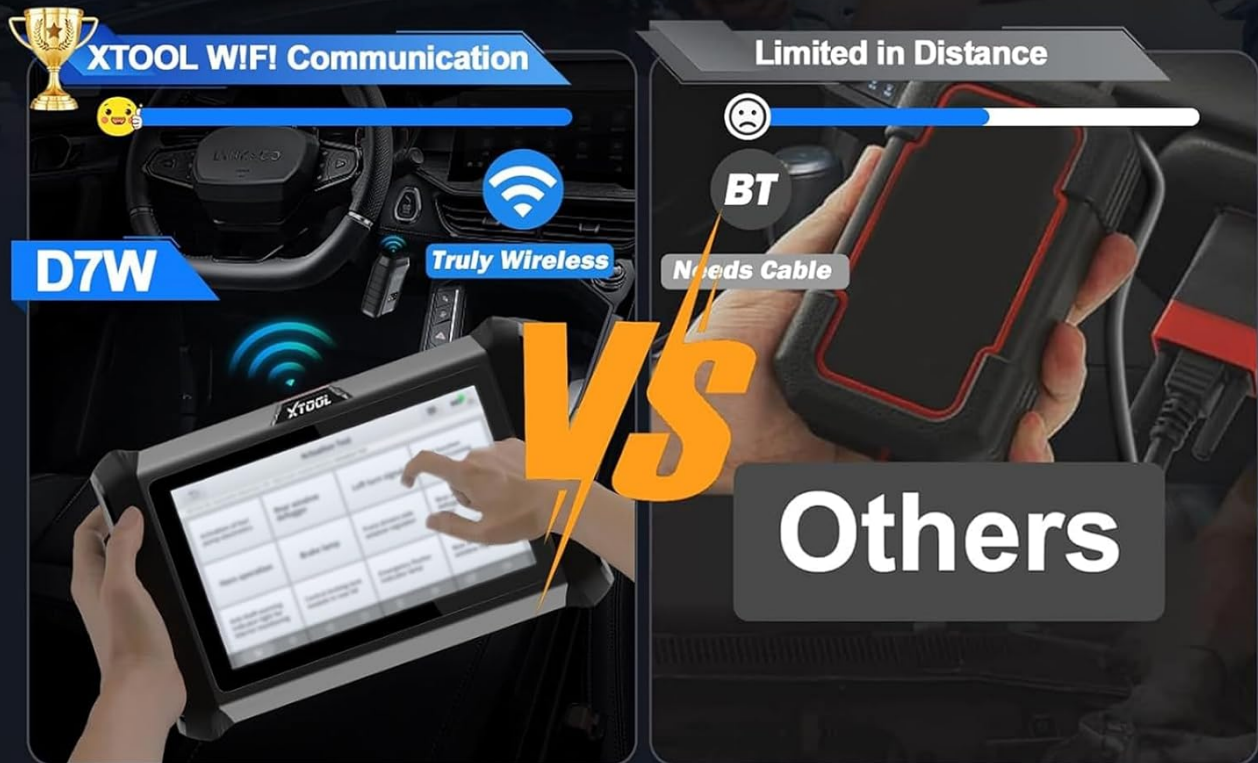
*Image: Diagram illustrating the wireless connection between the XTOOL D7W tablet and the VCI box, highlighting the freedom from tangled wires.*

# Operating Instructions

## 1. Full System Diagnostics

The D7W performs comprehensive diagnostics across all available vehicle systems, including Engine, ABS, SRS, Transmission, BCM, and more. This function allows you to:

- Read and Clear Diagnostic Trouble Codes (DTCs)
- View Live Data (up to 8 PIDs simultaneously)
- Retrieve Freeze Frame Data
- Access ECU Information
- Perform Auto VIN scanning for automatic vehicle identification

*Image: Screenshot of the XTOOL D7W performing full system diagnostics, showing various diagnostic functions.*

## 2. Bidirectional Control (Active Tests)

This function allows the diagnostic tool to send commands to vehicle components to test their functionality, aiding in faster fault isolation. Examples include:

- Injector Buzz Test
- ABS Pump Control
- Cooling Fan Activation
- Fuel Pump On/Off
- Window/Door Lock Tests



*Image: Examples of bidirectional control (active tests) such as injector buzz test, ABS pump control, and sound horn test.*

## 3. Special Functions (39+ Resets)

The D7W offers a wide array of maintenance and reset services, including but not limited to:

- Oil Reset
- EPB (Electronic Parking Brake) Reset
- TPMS (Tire Pressure Monitoring System) Reset
- BMS (Battery Management System) Reset

- SAS (Steering Angle Sensor) Calibration
- ABS Bleeding
- Injector Coding
- Throttle Relearn
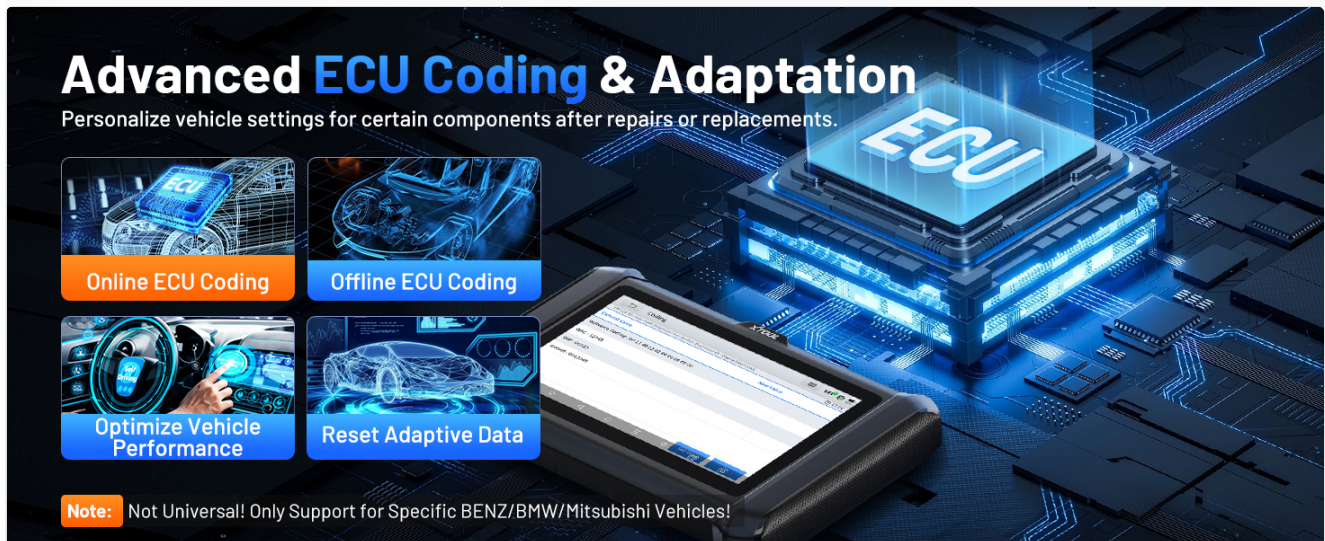


*Image: Overview of the 39+ maintenance services available on the XTOOL D7W, including various reset and calibration functions.*

## 4. Advanced ECU Coding & PMI Programming

This feature allows for personalization of vehicle settings and recoding adaptive data for certain components after repairs or replacements. PMI (Programmable Module Installation) programming enables programming data from an original module to a new unit for module replacement, particularly for Ford, Lincoln, and Mazda vehicles. **Note:** ECU Coding is not universally supported for all vehicles; it is specific to certain brands like VW, Audi, Skoda, Benz, and Mitsubishi.



*Image: Visual explanation of advanced ECU coding and adaptation, showing how it optimizes vehicle performance and resets adaptive data.*

| XTOOL D7W | | Others-No.1 | Others-No.2 | Others-No.3 |
|---|---|---|---|---|
| ⊘ | Full System&Bidirectional | ⊘ | ⊘ | ⊘ |
| W!F!=BT V2.0 | Wireless Connection W!F! | BT | BT | BT |
| 39+ 👍 | Special Functions | 28+ | 28+ | 31+ |
| 8 PIDS-IN-1 👍 | Live Data Graphing | 4 PIDS-IN-1 | 4 PIDS-IN-1 | 4 PIDS-IN-1 |
| ⊘ 👍 | ECU Coding | ⊗ | ⊗ | ⊘ |
| ⊘ 👍 | PMI | ⊗ | ⊗ | ⊘ |
| ⊘ 👍 | CAN FD & DoIP Protocol | ⊗ | ⊗ | ⊘ |
| ⊘ 👍 | Built-in Camera | ⊗ | ⊗ | ⊘ |
| ⊘ 👍 | Work with Inspection Camera | ⊘ | ⊗ | ⊘ |
| 3 Years(Worth $300) 👍 | Free Update | 1 Years | 2 Years | 2 Years |
| $419 | Net Product Price | $519 | $509 | $505 |

Image: Illustration of PMI and offline ECU programming for Ford, Lincoln, and Mazda vehicles, demonstrating module replacement procedures.

# Maintenance

- **Software Updates:** Regularly check for and install software updates via Wi-Fi to ensure compatibility with the latest vehicle models and diagnostic functions. The device includes 3 years of free updates.

- **Battery Care:** To prolong battery life, avoid fully discharging the tablet frequently. Store the device in a cool, dry place when not in use.

- **Cleaning:** Use a soft, damp cloth to clean the tablet screen and body. Avoid abrasive cleaners or solvents.

- **Storage:** Store the device and its accessories in the provided carry case to protect them from damage.

# Troubleshooting

- **Device Not Powering On:** Ensure the tablet is sufficiently charged. Connect it to the charger and wait a few minutes before attempting to power on again.

- **VCI Not Connecting:** Verify the VCI box is securely plugged into the vehicle's OBD2 port. Check the vehicle's ignition status. Ensure the tablet's Wi-Fi is enabled and attempting to connect to the VCI.

- **Diagnostic Function Not Working:** Confirm that the vehicle model and year are correctly selected. Ensure the software is up to date. Some functions may not be supported on all vehicle makes/models. Refer to the vehicle compatibility list or contact support.

- **Slow Performance:** Close any unnecessary applications running in the background. Ensure sufficient storage space is available.

# Specifications

| Feature | Specification |
|---|---|
| Model | XTOOL D7W |
| Operating System | Android 10.0 |

| Feature | Specification |
| --- | --- |
| Display | 7-inch Touchscreen |
| Memory | 2GB RAM + 64GB Storage |
| Battery | 5000mAh (7.3V) Lithium Polymer |
| Connection Method | Built-in Wi-Fi (Wireless VCI) |
| Supported Protocols | CAN FD, DoIP, FCA (with active subscription) |
| Dimensions | 12.6 x 11.25 x 4.1 inches |
| Item Weight | 5.06 pounds |
| Languages | 23 languages supported |

| | D7W | D7S | D7BT | D7 |
| --- | --- | --- | --- | --- |
| Full System Diagnostic | ✔ | ✔ | ✔ | ✔ |
| Connection Method | Built-in WIFI Cinnection | Wired Connection | BT Connection | Wired Connection |
| Diagnosis Distance | 33-66ft | <33ft | 33ft(Max) | <33ft |
| CAN FD & DoIP | CAN FD & DoIP | CAN FD & DoIP | CAN FD only | CAN FD only |
| Memory | 2+64GB | 2+64GB | 2+32GB | 2+32GB |
| Battery | 5000mAh Battery (=2500mAh,7.3v) | 5000mAh Battery (=2500mAh,7.3v) | 4000mAh | 4000mAh |
| Built-in Camera & Kickstand | ✔ | ✔ | ✘ | ✘ |
| Work with XV100 Inspection | ✔ | ✔ | ✘ | ✘ |
| 36+ Special Functions | ✔ | ✔ | ✔ | ✔ |
| Bi-directional Control | ✔ | ✔ | ✔ | ✔ |
| ECU Coding for VW/AUDI/SKODA/BENZ/Mitsubishi | ✔ | ✔ | ✔ | ✔ |
| 3 Years Free Update | ✔ | ✔ | ✔ | ✔ |

*Image: Comparison table highlighting the enhanced features of the XTOOL D7W compared to previous models like D7, D7S, and D7BT.*

# Warranty and Support

The XTOOL D7W comes with a **2-year warranty**. Additionally, it includes **3 years of free software updates** from the date of purchase, ensuring your tool remains current with the latest vehicle data and functionalities.

For technical assistance, troubleshooting, or any inquiries, please contact XTOOL customer support:

- **Email:** xtooldirect@outlook.com
- 24/7 Technical Assistance is available.



*Image: Information regarding XTOOL's professional services, including 24/7 tech assistance, 2-year warranty, and 3 years of free updates.*

## Related Documents - XTOOL D7W



[XTOOL D7 Diagnostic Tool User Manual](#)
Comprehensive user manual for the XTOOL D7 Diagnostic Tool, covering its features, operation, safety guidelines, and troubleshooting. Learn how to perform various diagnostic functions, special services, and system resets for a wide range of vehicles.



[Xtool VAG401 User Manual: Comprehensive Guide for VW, Audi, Seat, Skoda Diagnostics](#)
Comprehensive user manual for the Xtool VAG401 diagnostic tool, covering safety precautions, operation instructions, system diagnosis, and professional functions for VW, Audi, Seat, and Skoda vehicles. Get detailed instructions for this automotive diagnostic tool.

| | |
|---|---|
| **User Manual**<br>D7W Smart Diagnostic System | [XTOOL D7W Smart Diagnostic System User Manual](#)<br>Comprehensive user manual for the XTOOL D7W Smart Diagnostic System, detailing its features, operation, diagnostic functions, special maintenance functions, reporting, updates, warranty, and remote assistance. |
| HDGURU | [XTOOL HDGURU: Heavy Duty Vehicle Diagnostic Tool for Cummins & OBD2](#)<br>Discover the XTOOL HDGURU, a compact and powerful entry-level heavy-duty vehicle diagnostic tool. Ideal for small fleets, it offers comprehensive Cummins ECU diagnostics, HD OBD2 generic functions, bi-directional tests, and advanced programming. Features a 5.45-inch display, Linux system, and extensive maintenance functions. |
| **D7 Smart Diagnosis System**<br>**User Manual** | [XTOOL D7 Smart Diagnosis System User Manual: Comprehensive Guide to Automotive Diagnostics](#)<br>User manual for the XTOOL D7 Smart Diagnosis System, an advanced Android-based OBD2 scanner. Covers setup, operation, system diagnostics, and special reset functions for professional and DIY automotive repair. |
| D6S Smart Diagnostic System<br>USER MANUAL | [XTOOL D6S Smart Diagnostic System User Manual](#)<br>Comprehensive user manual for the XTOOL D6S Smart Diagnostic System, detailing its features, operation, maintenance services, special functions, and safety guidelines for automotive professionals and DIY enthusiasts. |