

XTOOL IP616

XTOOL IP616 V2.0 OBD2 Scanner Diagnostic Tool User Manual

1. INTRODUCTION

This manual provides detailed instructions for the XTOOL IP616 V2.0 OBD2 Scanner Diagnostic Tool. It covers the device's features, setup, operation, maintenance, and troubleshooting to ensure optimal performance and accurate vehicle diagnostics. The XTOOL IP616 V2.0 is designed for comprehensive automotive system analysis, offering a wide range of diagnostic and maintenance functions.



Image 1.1: The XTOOL IP616 V2.0 Diagnostic Tool, showcasing its user interface and robust design.

2. PRODUCT OVERVIEW

2.1. What's in the Box

The XTOOL IP616 V2.0 package includes the following components:

- XTOOL InPlus IP616 OBD2 Scanner Diagnostic Tool
- Charger for Tablet (US Adapter, EU Adapter, EN Adapter)
- VGA to OBD II Main Cable
- USB Cable
- Packing List
- Certificate of Quality
- Tool Case
- User Manual

XTOOL IP616 Packing List



2-Year Care



Lifetime
Free Update



Lifetime
Online Assistance



US, UK and EU Adapters



Color Carton



Type-C to Type-C
Charger Cable



Type_C to Type_A
Adapter(Connect to PC)



VAG to OBDII
Main Cable



Quick Guide &
Packing List



Image 2.1: Contents of the XTOOL IP616 V2.0 package, including the diagnostic tool and accessories.

2.2. Key Features

The XTOOL IP616 V2.0 offers a robust set of features for comprehensive vehicle diagnostics:

- **Lifetime Free Software Updates:** Ensures the tool remains current with the latest vehicle coverage and diagnostic capabilities.
- **34+ Maintenance Reset Services:** Includes functions like oil reset, throttle adaptation, ABS bleeding, injector coding, tire size reset, AC relearn, and crank sensor relearn.
- **CAN FD & DoIP Protocol Support:** Compatible with newer vehicle communication protocols, including FCA AutoAuth for 2018+ Chrysler models.
- **ECU Configuration:** Allows activation of manufacturer-built capabilities and restoration of factory defaults.
- **Full System Code Reading & Scanning:** Provides dealer-grade coverage for Engine, Transmission, ABS, SRS Airbags, TPMS, HVAC, Battery, Steering, and more.
- **Auto VIN Scan:** Automatically identifies vehicle information for quick diagnostics.
- **8-PID Live Data Streaming:** Displays up to 8 live data streams simultaneously for real-time performance analysis.

- **Wide Vehicle Coverage:** Supports over 10,000 OBDII-equipped vehicle models from 1996 to present.
- **Multi-Language Support:** Operates in 23 languages, with English as the default.

2025 NEW VER

XTOOL IP616

Car Diagnostic Scanner

Fast, Accurate and Stable, Plug and Play

Lifetime

Free Updates

Flash

Hidden Features

34+

Services

- All Systems Diagnosis
- CAN FD & DoIP Protocol
- Up to 8 Pids Graphing
- 10,000+ Vehicles Coverage
- 23 Languages
- One-Click Wi-Fi Updates

2025 Update in Hardware

7.0" Touchscreen

10.0 Android

5000 mAh Battery

2GB+64GB ROM

Type-C for Faster Charger

2.4 & 5 GHz WIFI

Image 2.2: Overview of the XTOOL IP616 V2.0's primary features and capabilities.

3. SETUP

3.1. Initial Charging

Before first use, fully charge the XTOOL IP616 V2.0. Connect the provided charger to the device's Type-C port and plug it into a power outlet. The device features a 5000mAh battery for extended operation.

3.2. Powering On

Press and hold the power button located on the side of the device until the screen illuminates. The device runs on Android 10.0 and will boot up to the main interface.

3.3. Connecting to Vehicle

1. Locate the vehicle's OBDII port, typically under the dashboard on the driver's side.
2. Connect the VGA to OBD II Main Cable to the diagnostic tool and then to the vehicle's OBDII port.
3. Turn the vehicle's ignition to the ON position (engine off).
4. The diagnostic tool will establish communication with the vehicle.

3.4. Wi-Fi Connection

To access software updates and online resources, connect the device to a Wi-Fi network:

1. From the main menu, tap on 'Settings'.
2. Select 'Wi-Fi' and choose your desired network.
3. Enter the password if prompted and connect.

4. OPERATING INSTRUCTIONS

4.1. Full System Diagnostics

The IP616 V2.0 can perform a comprehensive scan of all available electronic control units (ECUs) in the vehicle. This includes Engine, Transmission, ABS, SRS Airbags, TPMS, HVAC, and more.

1. From the main menu, tap 'Diagnostic'.
2. Select 'Auto Scan' or manually choose the vehicle make, model, and year.
3. The tool will scan all systems and display any detected Diagnostic Trouble Codes (DTCs).
4. You can then 'Read DTCs' for detailed descriptions or 'Clear DTCs' after repairs are completed.

O E-Level All System Diagnosis

Fast Scan 2.0 delivers quicker, more accurate full-vehicle diagnostics



Image 4.1: Full system diagnostic interface, illustrating the comprehensive scanning capabilities.

4.2. Special Functions (34+ Reset Services)

The tool provides over 34 maintenance and reset services. These functions are crucial for post-repair procedures and routine maintenance.

- **Oil Reset:** Resets the oil life system after an oil change.
- **ABS Bleeding:** Performs bleeding functions for the Anti-lock Braking System.
- **Injector Coding:** Codes new injector numbers to the ECU.
- **Tire Size Reset:** Adjusts vehicle parameters after changing tire sizes.
- **AC Relearn:** Relearns AC system parameters.
- **Airbag Repair:** Resets the airbag warning light after airbag system repairs.
- And many more, including EPB Reset, BMS Reset, TPMS Reset, Throttle Relearn, Headlight adjustment, etc.

Note: Compatibility of special functions varies by vehicle. Always check compatibility with your vehicle's VIN before performing any service.

34+ Hottest Services

Covers 98% of car repairs—pays for itself after just one use



Supports 150+ models,
from quick fixes to major repairs.

Check Compatibility - Come to xtoolinplusus@outlook.com

Image 4.2: A selection of the 34+ maintenance and reset services available on the IP616 V2.0.

4.3. ECU Configuration

This function allows you to activate or deactivate certain manufacturer-built features that may be disabled by default, or to restore factory settings without permanent changes to the ECU software.

- Unfold or turn off functions as needed.
- Re-flash hidden functions.
- Activate high-level hidden features.
- Optimize vehicle performance.

Note: This feature is compatible with specific vehicle brands such as Toyota, VW, Audi, BMW, Mercedes-Benz, Lexus, and more. Always verify compatibility for your specific vehicle model and year.

ECU Configuration

Fine-tune settings to boost your car's performance

- Unfold the functions you need
- Turn off the functions you needn't
- Re-Flash Hidden Functions
- Activate High-level Hidden Features
- D!sable Annoying Features
- Optimize Vehicle Performance

Fit For

- For BMW
- For TOYOTA
- For VW
- For AUDI
- For FORD
- For SKODA
- For MAZDA
- For LEXUS
- For SCION
- For LINCOLN (currently)

Note

Please come to xtoolofficial@outlook.com to check the compatibility



Image 4.3: ECU Configuration interface, detailing options for customizing vehicle features.

4.4. Live Data Streaming and Graphing

Monitor real-time data from various sensors and systems to diagnose intermittent issues or verify repairs. The IP616 V2.0 can display up to 8 PIDs (Parameter IDs) simultaneously in a graphical format.

1. After a system scan, select 'Live Data'.
2. Choose the parameters you wish to monitor (e.g., RPM, fuel pressure, sensor status, temperature).
3. View data in numerical or graphical format. The graphing feature allows for easy analysis of data trends over time.
4. Data can be recorded, played back, and exported for further analysis.

More flexible new live data

Multi Axes ☒View Axes ☐Throttle valve position (absolute) ☒

16.9 %

Accelerator pedal position ☒

49.4 %

Throttle valve position, normed ☒

45.5 %

What's News in IP616-V2.0

Customizable V2.0 diagnostic reports

XTOOL

Telephone: --

website: --

Address: --

► Basic Information

VIN: LBV31DU05NS529416

Mileage: 4287km

Plate No.: --

Report Date: 2025-01-03 17:01:54

SN: IP616-WD56BG5

Version: V5.6.38_10.58

Path: BMW-V20.10->Automatic Detection->Automatic Scan

► System Scan Result

Image 4.4: Live data graphing feature, showing multiple data streams for real-time analysis.

4.5. Auto VIN Scan

The Auto VIN Scan feature automatically identifies the vehicle's make, model, and year, streamlining the diagnostic process by quickly matching the correct software.

- Connect the tool to the vehicle.
- Select 'Auto Scan' from the diagnostic menu.
- The tool will attempt to automatically detect the VIN.
- If Auto VIN fails, you can manually enter the VIN data.

4.6. Diagnostic Reports

Generate detailed diagnostic reports that include VIN-specific trouble code analysis. These reports can be saved, printed, or exported via email for sharing with mechanics or customers.

No IP Restriction Multi-Language Flexibility

✓ 23 Languages

✓ Breaking Language Barriers

✓ Inclusive Communication

✓ Perfect for Global Expansion



Image 4.5: Diagnostic report generation and sharing capabilities.

5. MAINTENANCE

5.1. Software Updates

The XTOOL IP616 V2.0 comes with lifetime free software updates. Regular updates ensure the tool has the latest vehicle coverage, new functions, and improved diagnostic capabilities.

1. Ensure the device is connected to a stable Wi-Fi network.
2. From the main menu, tap 'Updates'.
3. Follow the on-screen prompts to download and install available updates.
4. It is recommended to perform updates regularly to maintain optimal performance.

CAN FD & DoIP Support

Fit for GM, for GMC, for Cadillac from 2020 onwards, for BMW, for Mercedes-Benz, and other vehicles from 2018 onwards.

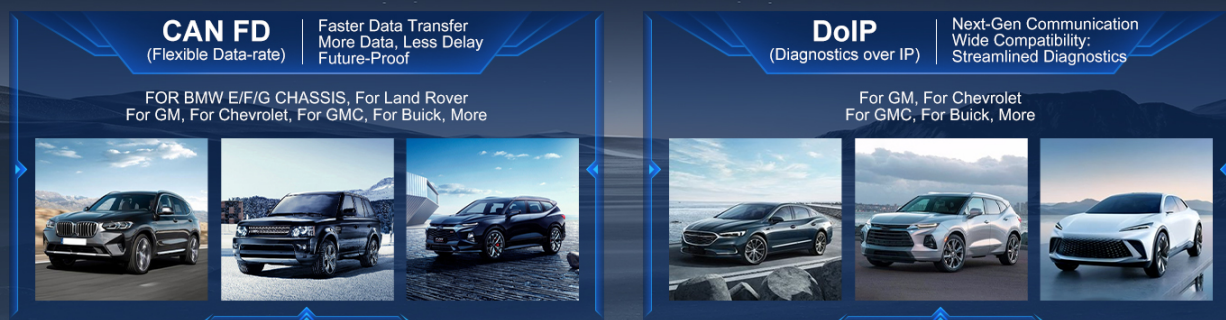


Image 5.1: The lifetime free update feature, highlighting continuous improvement and support.

6. TROUBLESHOOTING

If you encounter issues with your XTOOL IP616 V2.0, consider the following common solutions:

- **Device Not Powering On:** Ensure the device is fully charged. If the battery is low, connect it to the charger.
- **No Communication with Vehicle:**
 - Verify the OBDII cable is securely connected to both the tool and the vehicle's OBDII port.

- Ensure the vehicle's ignition is in the ON position.
- Check if the vehicle's battery is sufficiently charged.
- Try connecting to a different vehicle to rule out a vehicle-specific issue.

- **Software Function Not Working:**

- Ensure the software is up to date. Perform a 'One-click update' if available.
- Verify the function's compatibility with your specific vehicle model and year.
- Restart the diagnostic tool and the vehicle.

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

For persistent issues or specific technical support, please contact XTOOL customer service at xtoolinplusus@outlook.com. Provide your device's serial number (S/N) for faster assistance.

7. SPECIFICATIONS






Feature	Specification
Brand	XTOOL
Model	IP616
Operating System	Android 10.0
Battery	1 Lithium Ion battery (included), 5000mAh
Item Weight	4.67 pounds
Product Dimensions	0.98 x 0.13 x 0.56 inches
Connectivity	CAN FD, DoIP, OBDII
Vehicle Coverage	10,000+ models, 1996 to present
Languages Supported	23 (English, Spanish, German, French, etc.)
Software Updates	Lifetime Free Updates

8. WARRANTY AND SUPPORT

The XTOOL IP616 V2.0 comes with lifetime free software updates, ensuring your device remains up-to-date with the latest vehicle data and diagnostic functions. XTOOL also provides lifetime online assistance to help users with any operational or technical queries.

For support, please reach out to the XTOOL customer service team:

- **Email:** xtoolinplusus@outlook.com
- When contacting support, please include your device's serial number (S/N) for efficient service.

<div><div>XTOOL</div><div>D7 DIAGNOSTIC TOOL USER MANUAL</div><div></div><div>Version 1.0 Shenzhen XTOOL, Inc. Intelligent Co., LTD</div></div>	<div><div>XTOOL D7 Diagnostic Tool User Manual</div><div>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.</div></div>
<div><div>XTOOL</div><div></div><div>HDGURU</div><div>BRAND NEW SYSTEM MAINTENANCE FUNCTIONS</div><div>BASIC DIAGNOSTICS HD OBD2 GENERIC DIAGNOSTICS</div><div>Hardware: XTOOL, Inc. Software: XTOOL, Inc.</div></div>	<div><div>XTOOL HDGURU: Heavy Duty Vehicle Diagnostic Tool for Cummins & OBD2</div><div>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.</div></div>
<div><div>XTOOL</div><div>USER MANUAL Anyscan Wireless Scan Tool</div><div></div><div>This user manual is applicable to A30/A30D/A30M Shenzhen XTOOL Intelligent Co., LTD</div></div>	<div><div>XTOOL Anyscan Wireless Scan Tool User Manual</div><div>Comprehensive user manual for the XTOOL Anyscan Wireless Scan Tool (models A30, A30D, A30M). Learn about setup, operation, diagnosis, special functions, and troubleshooting for this automotive diagnostic device.</div></div>
<div><div>Table of Contents</div><div><div>Safety Precautions.....2</div><div>About VAG401.....4</div><div>1. Application.....4</div><div>2. Available Functions.....4</div><div>3. Supported Systems.....4</div><div>4. Professional Functions.....4</div><div>5. Main Features.....5</div><div>6. Appearance and Key Description.....5</div><div>Operation Instructions.....6</div><div>1. Preparation for Testing.....6</div><div>2. Connect the VAG401.....7</div><div>3. Diagnostic system.....8</div><div>3.1 Read ECU version.....10</div><div>3.2 Read Fault codes.....10</div><div>3.3 ERASE Fault.....11</div><div>3.4 Read measuring data value.....11</div><div>3.5 Output test.....12</div><div>3.6 Basic Data setting.....13</div><div>3.7 Module adaptation.....13</div><div>3.8 Coding.....13</div><div>3.9 Update the system.....14</div><div>3.10 Advanced ECU.....15</div><div>3.11 System testing ready.....16</div><div>3.12 Professional Functions.....16</div><div>4. Language select.....18</div><div>5. Control value adaptation.....18</div><div>6. List Item.....19</div><div>7. Key setting.....19</div><div>8. About.....20</div><div>9. Location of Data Linking Connection.....21</div></div></div>	<div><div>Xtool VAG401 User Manual: Comprehensive Guide for VW, Audi, Seat, Skoda Diagnostics</div><div>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.</div></div>
<div><div>Anyscan A30 User Manual</div><div></div><div>Safety Information</div><div>Read the safety information carefully before using the device. The device is not to be used in the presence of flammable or explosive gases. The device is not to be used in the presence of high voltage. The device is not to be used in the presence of magnetic fields. The device is not to be used in the presence of radio waves. The device is not to be used in the presence of electromagnetic interference. The device is not to be used in the presence of lightning. The device is not to be used in the presence of fire. The device is not to be used in the presence of water. The device is not to be used in the presence of oil. The device is not to be used in the presence of dirt. The device is not to be used in the presence of dust. The device is not to be used in the presence of sand. The device is not to be used in the presence of salt. The device is not to be used in the presence of acid. The device is not to be used in the presence of alkali. The device is not to be used in the presence of corrosive substances. The device is not to be used in the presence of toxic substances. The device is not to be used in the presence of radioactive substances. The device is not to be used in the presence of nuclear radiation. The device is not to be used in the presence of ionizing radiation. The device is not to be used in the presence of non-ionizing radiation. The device is not to be used in the presence of electromagnetic radiation. The device is not to be used in the presence of radio frequency radiation. The device is not to be used in the presence of microwave radiation. The device is not to be used in the presence of ultraviolet radiation. The device is not to be used in the presence of infrared radiation. The device is not to be used in the presence of visible light radiation. The device is not to be used in the presence of sound radiation. The device is not to be used in the presence of mechanical radiation. The device is not to be used in the presence of thermal radiation. The device is not to be used in the presence of electrical radiation. The device is not to be used in the presence of magnetic radiation. The device is not to be used in the presence of gravitational radiation. The device is not to be used in the presence of cosmic radiation. The device is not to be used in the presence of background radiation. The device is not to be used in the presence of natural radiation. The device is not to be used in the presence of artificial radiation. The device is not to be used in the presence of ionizing radiation. The device is not to be used in the presence of non-ionizing radiation. The device is not to be used in the presence of electromagnetic radiation. The device is not to be used in the presence of radio frequency radiation. The device is not to be used in the presence of microwave radiation. The device is not to be used in the presence of ultraviolet radiation. The device is not to be used in the presence of infrared radiation. The device is not to be used in the presence of visible light radiation. The device is not to be used in the presence of sound radiation. The device is not to be used in the presence of mechanical radiation. The device is not to be used in the presence of thermal radiation. The device is not to be used in the presence of electrical radiation. The device is not to be used in the presence of magnetic radiation. The device is not to be used in the presence of gravitational radiation. The device is not to be used in the presence of cosmic radiation. The device is not to be used in the presence of background radiation. The device is not to be used in the presence of natural radiation. The device is not to be used in the presence of artificial radiation.</div></div>	<div><div>Anyscan A30 User Manual: Automotive Diagnostic Tool Guide</div><div>Comprehensive user manual for the XTOOL Anyscan A30, an automotive diagnostic tool. Learn about safety, setup, app usage, diagnosis, services, settings, and updates for your vehicle.</div></div>
<div><div>XTOOL</div><div>D7 Smart Diagnosis System User Manual</div><div></div></div>	<div><div>XTOOL D7 Smart Diagnosis System User Manual Comprehensive Automotive Diagnostics</div><div>Explore the XTOOL D7 Smart Diagnosis System User Manual for detailed instructions on automotive diagnostics, special functions, and system settings. Learn to use your OBD2 scanner effectively.</div></div>