DonosHome DH300

DonosHome DH300 OBD2 Auto Diagnostic Scanner User Manual

Model: DH300

1. Introduction

The DonosHome DH300 is an innovative, multi-function OBD2 code reader designed to be one of the most accurate and economical vehicle diagnostic tools available. It helps users easily determine the cause of the Check Engine Light (MIL) and provides comprehensive information on vehicle health and performance. This manual provides detailed instructions for the proper use and maintenance of your DH300 scanner.

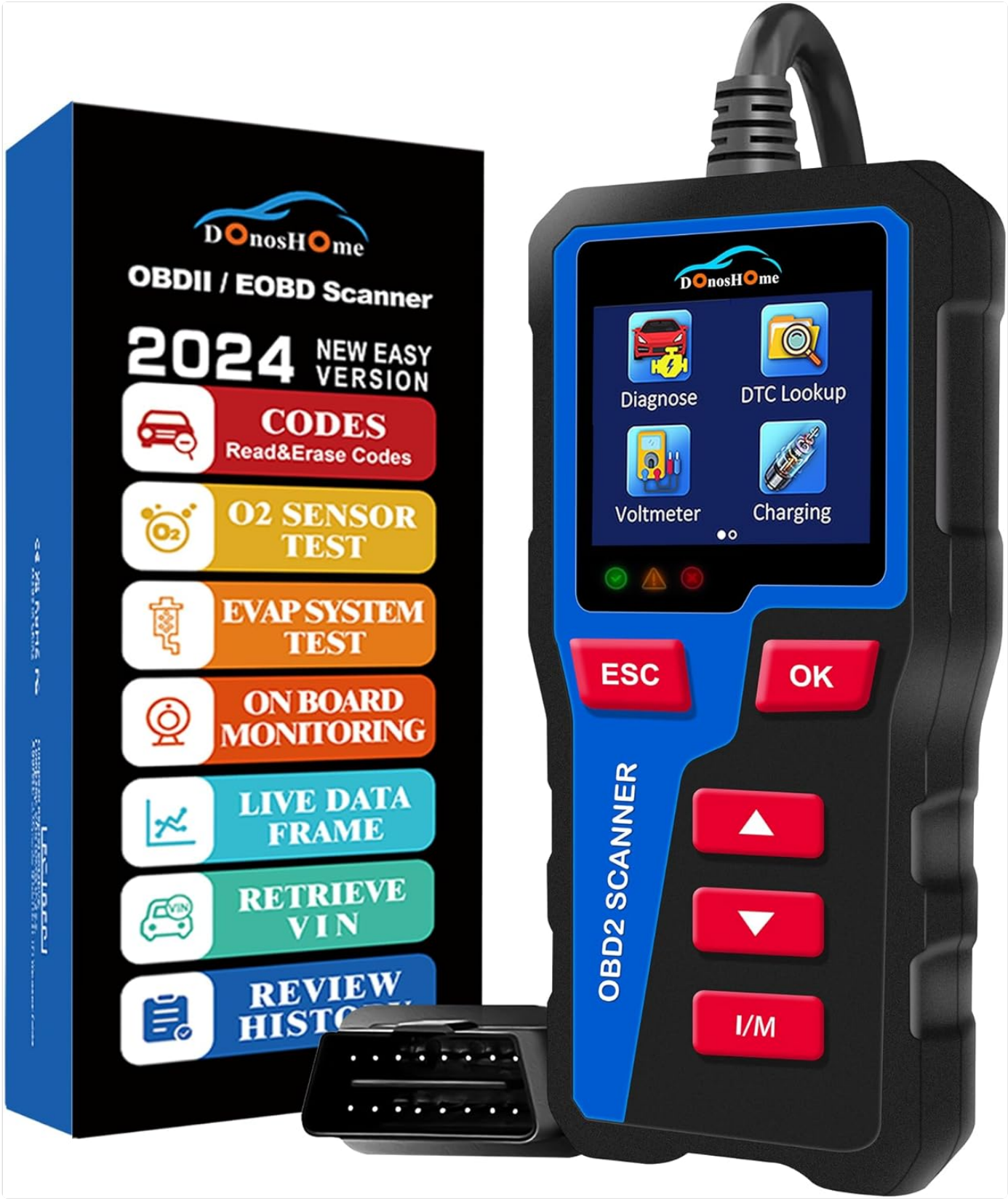

Figure 1.1: DonosHome DH300 OBD2 Scanner and its retail packaging, highlighting key features.

2. Safety Precautions

Please read this user manual carefully and follow the warnings and precautions below before use, to avoid the possibility of personal injury or damage to the vehicle and/or the device:

- Do not smoke, light matches, or cause sparks near the vehicle during operation.
- Do not come into contact with hot engine parts to avoid severe burns, especially when the engine is running.
- Do not use this tool while driving.

- Always wear appropriate eye protection when working on vehicles.
- Ensure the vehicle is in a well-ventilated area when running the engine.

3. Package Contents

Upon opening the package, please verify that all items listed below are included and in good condition:

- 1 x DonosHome DH300 OBD2 Scanner
- 1 x User Manual (this document)
- 1 x Package Box

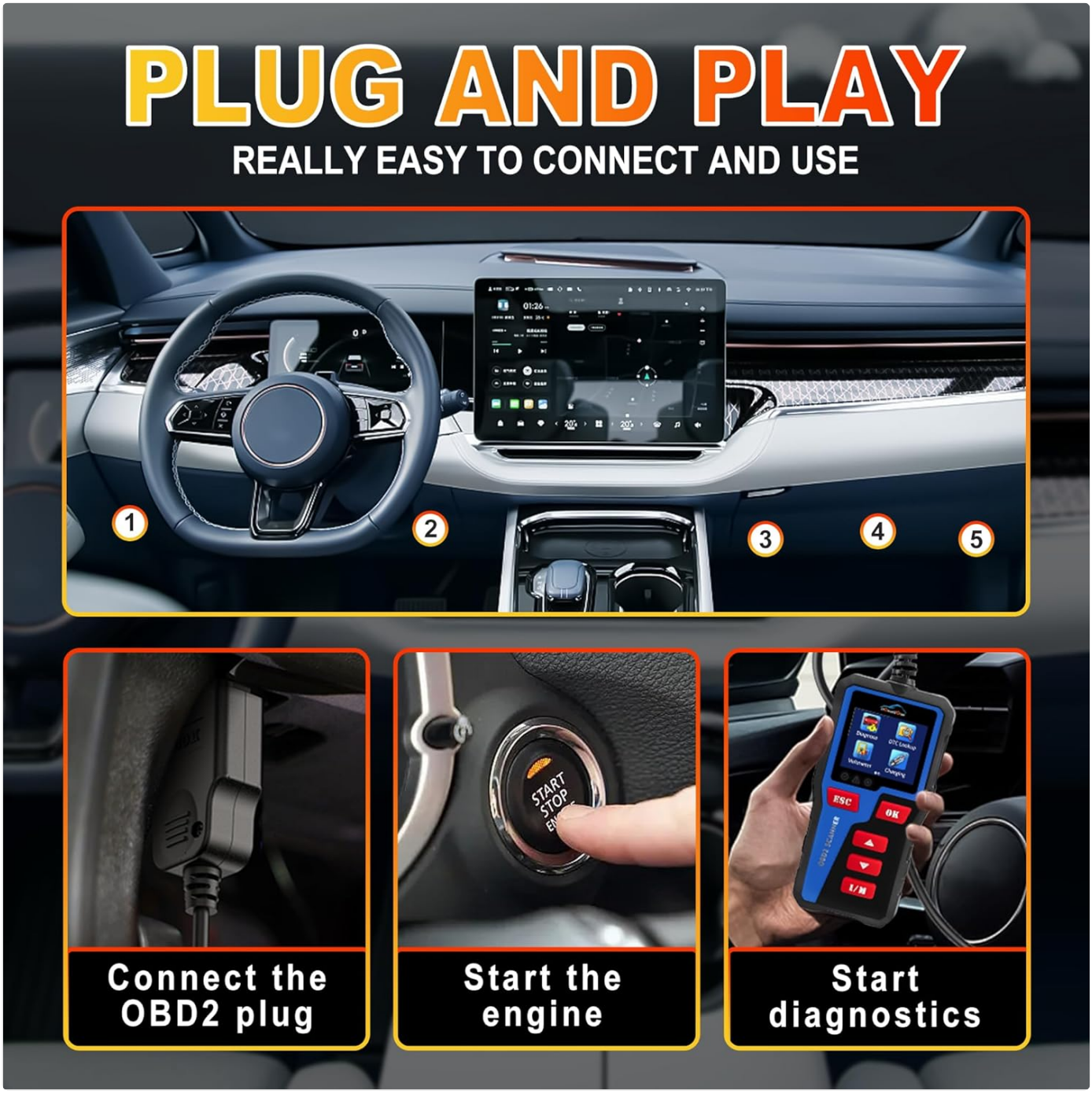

Figure 3.1: The package includes the OBD2 scanner, user manual, and package box.

4. Product Features

The DonosHome DH300 OBD2 scanner is equipped with a variety of features designed for comprehensive vehicle diagnostics:

- **Check Engine Light (MIL) Management:** Easily determine the cause, turn off the light, clear codes, and reset monitors.
- **DTC Definitions:** Displays Diagnostic Trouble Code definitions directly on the screen.
- **Freeze Frame Data:** View a snapshot of vehicle conditions when a fault code was set.
- **I/M Readiness Status:** Check monitor and I/M readiness status for emissions testing.
- **Pending Codes:** Identify codes that have not yet triggered the MIL.
- **Real-time PCM Data Stream:** Read live data from the Powertrain Control Module.
- **O2 Sensor Test Data:** Display real-time O2 sensor test results.
- **Data Graphing:** Visualize live data for easier analysis.
- **Data Playback:** Read, store, and playback real-time sensor data, DTC data, and freeze frame data.
- **Test Modules:** Perform present test modules.
- **Vehicle Information Retrieval:** Retrieve VIN (Vehicle Identification Number), CIN (Calibration Identification Number), and CVN (Calibration Verification Number).
- **Protocol Support:** Supports CAN (Controller Area Network) and all other current OBD2 protocols.
- **Built-in DTC Library:** Integrated OBD2 DTC lookup library for quick reference.
- **Voltmeter Function:** Test battery voltage and charging system.
- **Waveform Graphing:** Starting waveform graph and real-time waveform graph.
- **Multilingual Support:** 10 built-in languages (English, German, Spanish, French, Italian, Dutch, Finnish, Polish, Portuguese, Russian).
- **Ergonomic Design:** Color screen, plug-and-play operation, powered directly by the vehicle.
- **Fault Indicators:** Red, yellow, and green LED indicators for quick fault status.

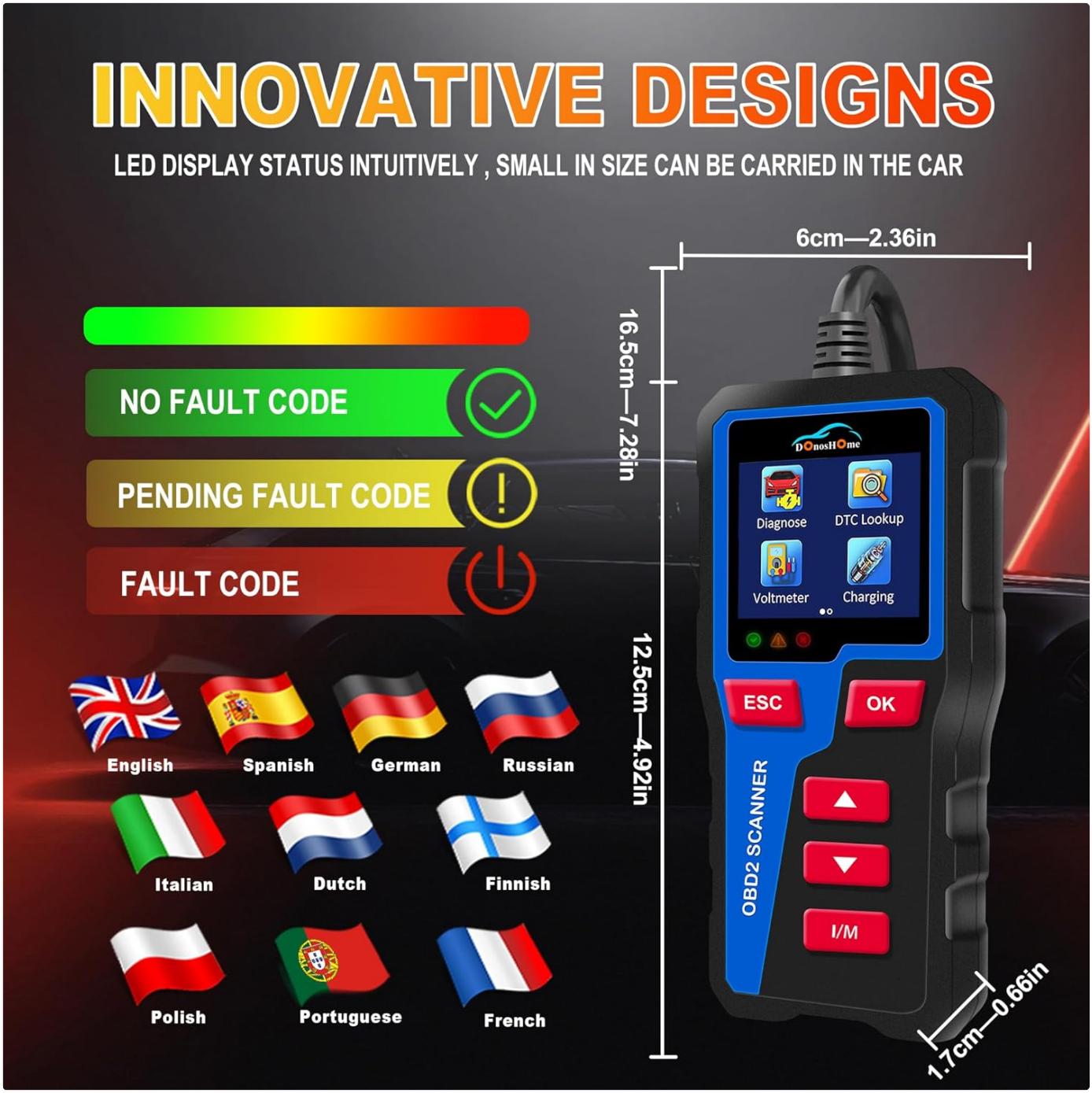

Figure 4.1: Key diagnostic functions of the DonosHome DH300.

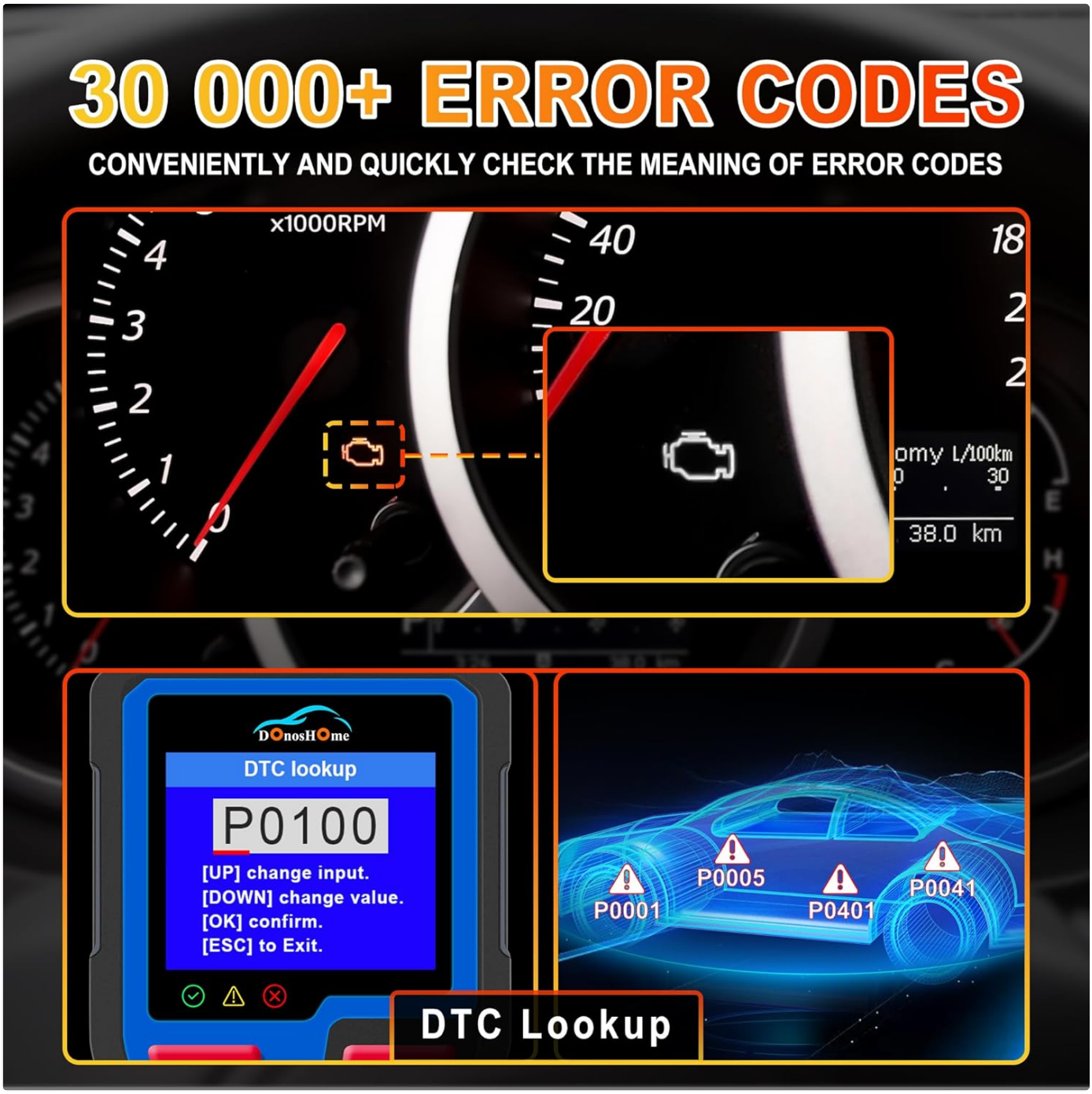

Figure 4.2: Innovative design with LED indicators and multilingual support.

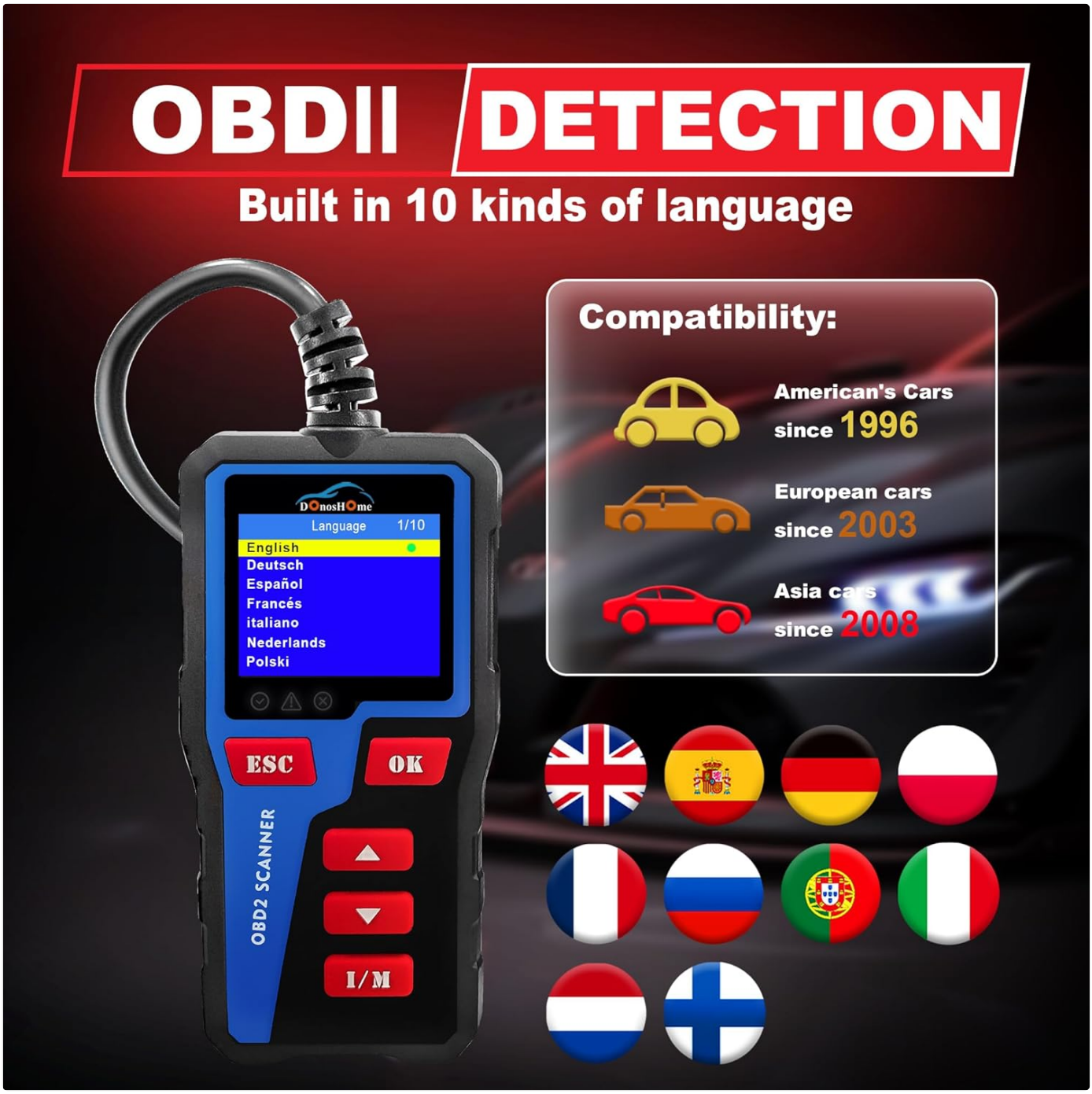

Figure 4.3: Multilingual interface and broad vehicle compatibility.

5. Setup and Connection

The DH300 scanner is designed for simple plug-and-play operation. Follow these steps to connect the device to your vehicle:

1. **Locate the OBD2 Port:** The OBD2 port is typically located under the dashboard on the driver's side, often near the steering column. Refer to your vehicle's owner's manual if you cannot find it.
2. **Connect the OBD2 Plug:** Firmly insert the DH300's OBD2 connector into the vehicle's OBD2 port. The device will power on automatically.
3. **Start the Engine:** Turn the vehicle's ignition to the "ON" position or start the engine. The scanner will establish communication with the vehicle's ECU.
4. **Begin Diagnostics:** Once connected and powered, the scanner is ready for use.

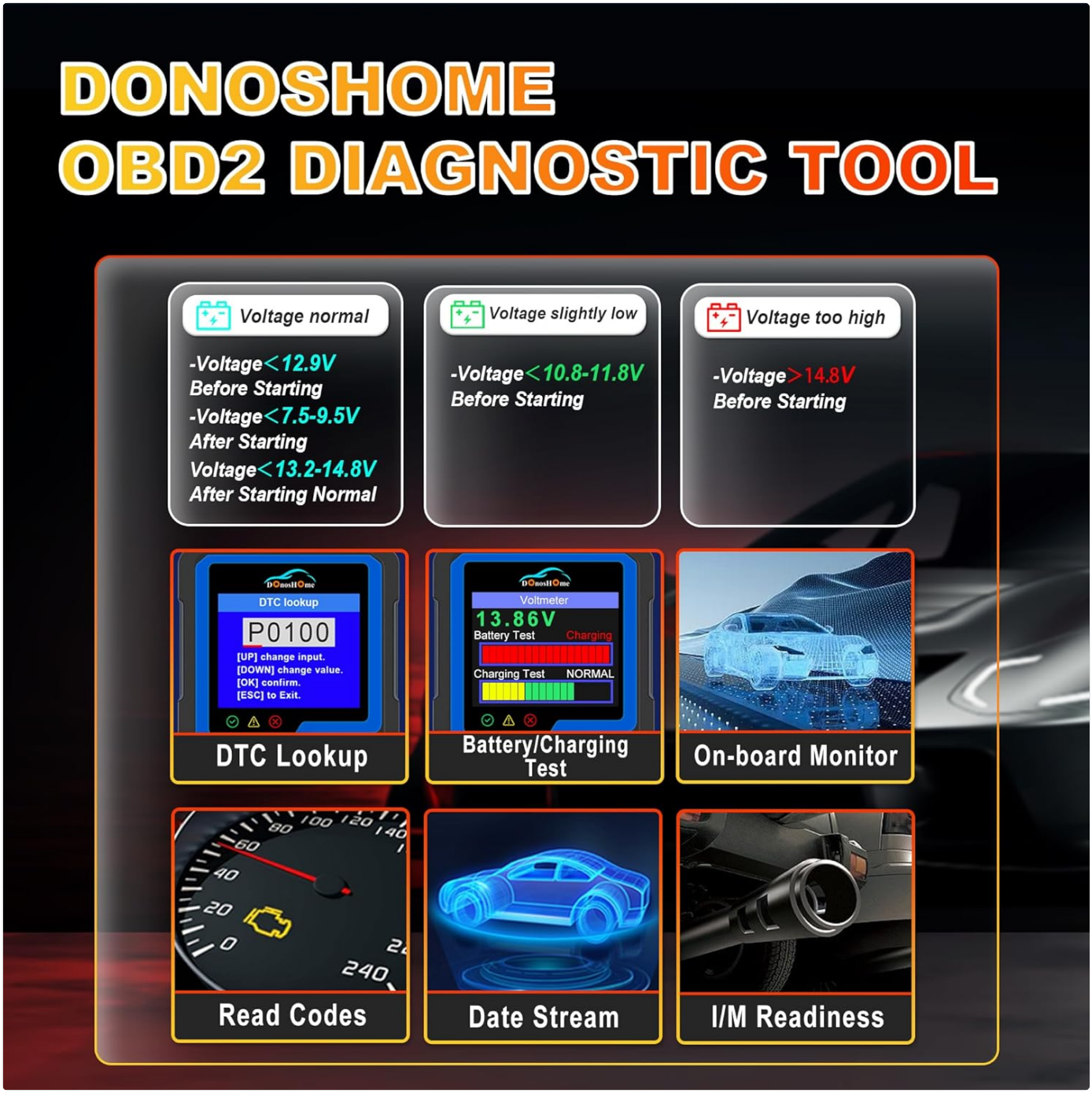

Figure 5.1: Simple plug-and-play connection process.

6. Operating Instructions

The DH300 features a user-friendly interface with a color screen and five buttons: Up, Down, OK, ESC, and I/M. Navigate through menus using the Up/Down buttons, confirm selections with OK, and go back with ESC. The I/M button provides quick access to readiness status.

6.1. Reading and Clearing Trouble Codes (DTCs)

To read and clear Diagnostic Trouble Codes:

1. From the main menu, select "Diagnose" and press **OK**.
2. Navigate to "Read Codes" and press **OK**. The scanner will display any stored, pending, or permanent codes.
3. To clear codes, select "Erase Codes" from the diagnostic menu and press **OK**. Confirm the action when prompted. This will turn off the Check Engine Light.

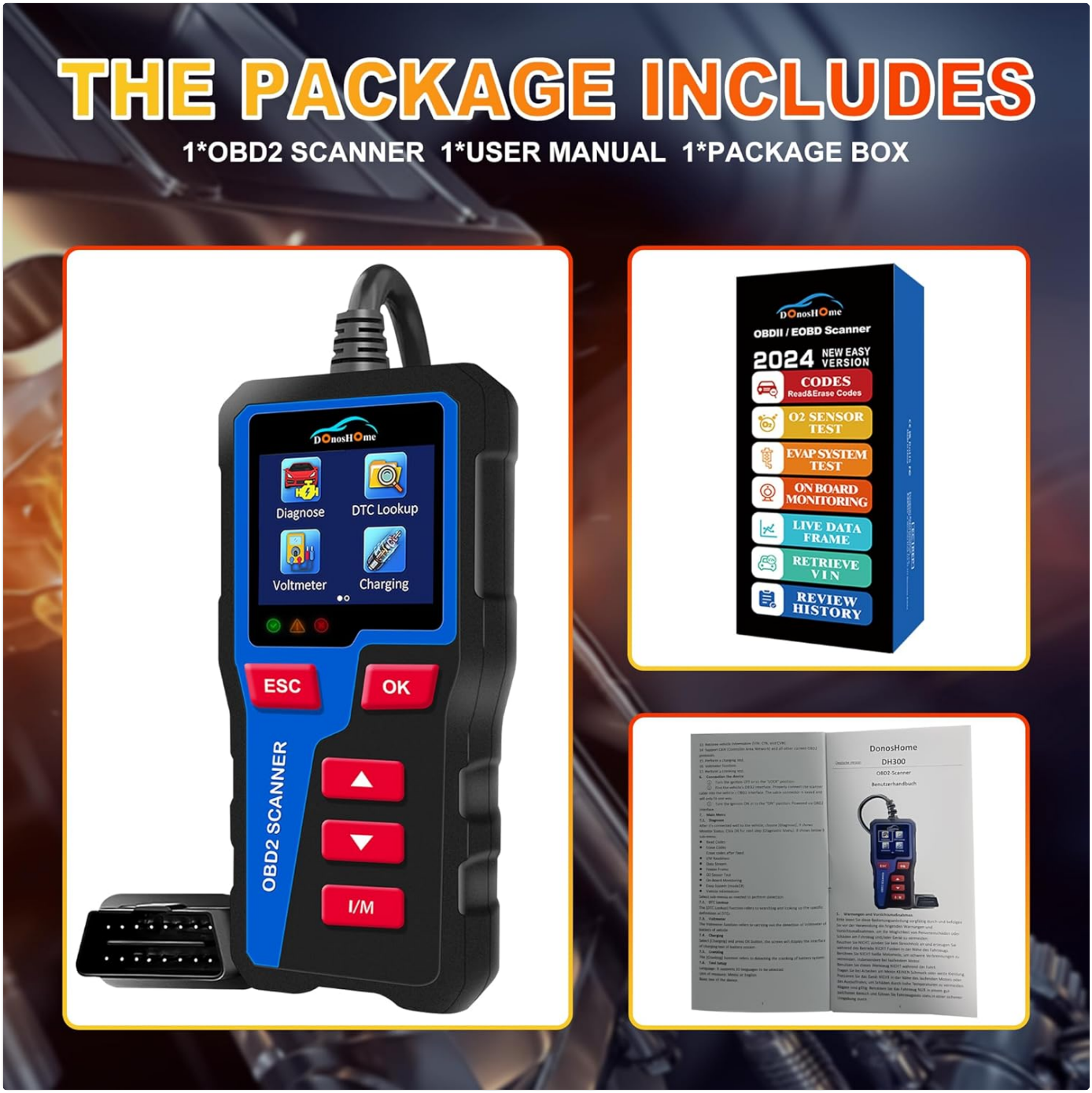

Figure 6.1: DTC Lookup function and examples of error codes.

6.2. I/M Readiness Quick Start

The I/M Readiness function allows you to quickly check the status of emission-related monitors, which is crucial for smog tests.

- Press the dedicated **I/M** button on the scanner for a quick check.
- Alternatively, navigate to "I/M Readiness" from the main menu.
- The screen will display the status of various monitors (e.g., MIL, MIS, FUE, CCM, CAT, HCAT, O2S, EVAP, AIR, HRT, EGR) indicating whether they are "OK" (completed), "X" (not completed), or "N/A" (not applicable).

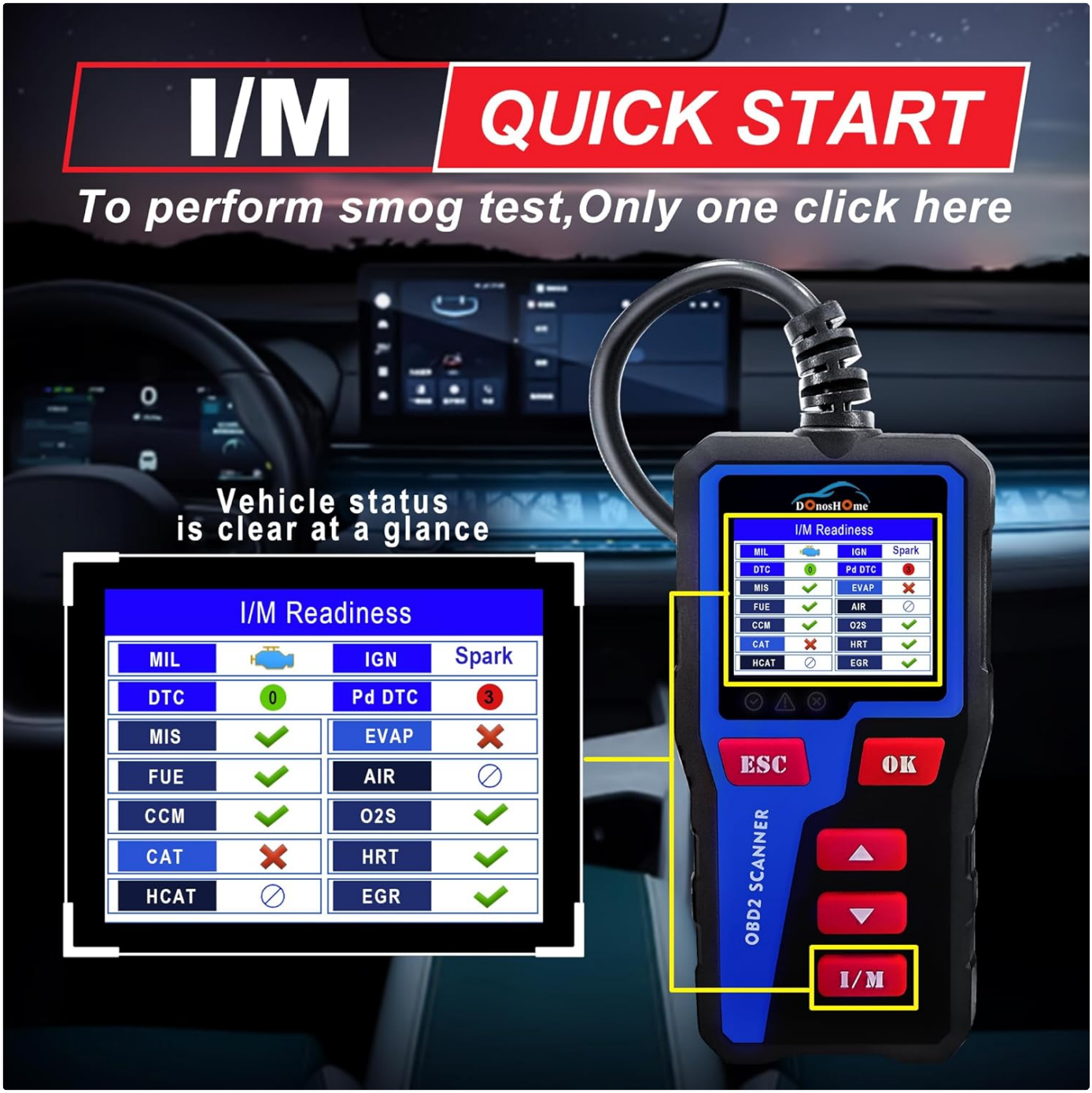

Figure 6.2: I/M Readiness Quick Start screen.

6.3. Voltmeter and Battery Test

The DH300 includes a voltmeter function to test your vehicle's battery and charging system.

- From the main menu, select "Voltmeter" and press **OK**.
- The screen will display the current battery voltage and charging status (e.g., Normal, Charging).
- Interpret the results based on the provided guidelines:
  - **Voltage normal:** >12.9V Before Starting, >13.2-14.8V After Starting.
  - **Voltage slightly low:** <12.9V Before Starting, <13.2V After Starting.
  - **Voltage too low:** <10.8-11.8V Before Starting.
  - **Voltage too high:** >14.8V After Starting.

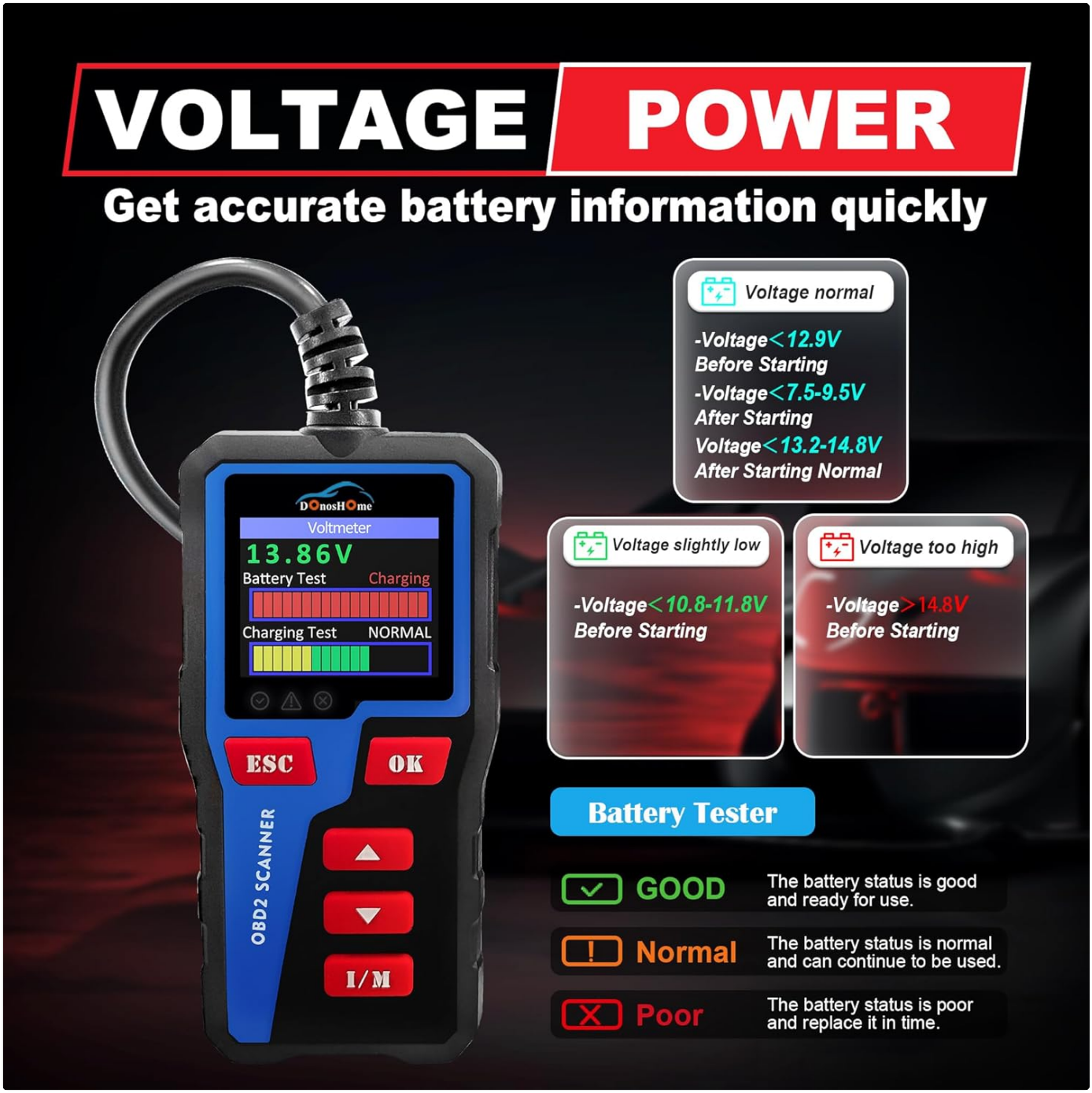

Figure 6.3: Voltmeter and Battery Test interface.

6.4. Live Data Stream

View real-time sensor data from your vehicle's engine. This can help diagnose intermittent problems or verify repairs.

- From the main menu, select "Diagnose" and then "Live Data".
- The scanner will display various parameters such as engine RPM, vehicle speed, coolant temperature, O2 sensor readings, etc.
- Use the Up/Down buttons to scroll through the data. Some parameters can be graphed for better visualization.

6.5. Other Diagnostic Functions

The DH300 offers additional diagnostic capabilities:

- **O2 Sensor Test:** Access results of the oxygen sensor monitor tests.
- **EVAP System Test:** Initiate a test of the Evaporative Emission Control System.
- **On-Board Monitor Test:** View results of on-board diagnostic monitoring tests for specific components/systems.

- **Retrieve VIN:** Get vehicle information including VIN, CIN, and CVN.
- **Review History:** Access previously stored diagnostic data.

7. Maintenance

To ensure the longevity and optimal performance of your DonosHome DH300 scanner:

- **Cleaning:** Use a soft, dry cloth to clean the scanner's exterior. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a clean, dry environment, away from extreme temperatures and direct sunlight.
- **Cable Care:** Avoid bending or crimping the OBD2 cable excessively. Always grasp the connector, not the cable, when plugging or unplugging.
- **Software Updates:** Check the manufacturer's website periodically for any available software updates to ensure compatibility with newer vehicles and improved functionality.

8. Troubleshooting

If you encounter issues while using your DH300 scanner, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Scanner does not power on.	◦ Loose connection to OBD2 port. ◦ Vehicle ignition not ON. ◦ Vehicle battery low or dead. ◦ Faulty OBD2 port fuse in vehicle.	◦ Ensure the OBD2 connector is firmly seated. ◦ Turn the ignition to the "ON" position or start the engine. ◦ Check vehicle battery voltage (use the DH300's voltmeter function if possible, or a separate battery tester). ◦ Consult your vehicle's manual to check and replace the OBD2 port fuse if necessary.
"Link Error" or "Communication Error" message.	◦ Vehicle not OBD2 compliant. ◦ Incorrect protocol detection. ◦ Faulty connection.	◦ Verify your vehicle is OBD2 compliant (American cars after 1996, European after 2003, Asian after 2008). ◦ Ensure the connection is secure. Try disconnecting and reconnecting. ◦ Ensure the vehicle's ignition is ON or the engine is running.
Cannot clear codes.	◦ Engine not running or ignition not ON. ◦ Underlying fault still present.	◦ Ensure the engine is running or ignition is ON. ◦ Codes cannot be cleared if the underlying issue causing them is still active. Diagnose and fix the problem first.

9. Specifications

Attribute	Detail
Brand	DonosHome

Attribute	Detail
Model	DH-300
Item Weight	191 g
Product Dimensions (L x W x H)	8 x 5 x 15 cm
Power Source	Corded Electric (Vehicle OBD2 port)
Screen Size	3.2 Inches
Display Resolution	320x240
Supported Protocols	CAN and all other current OBD2 protocols
Supported Languages	English, German, Spanish, French, Italian, Dutch, Finnish, Polish, Portuguese, Russian
Compatibility	American vehicles after 1996, European vehicles after 2003, Asian vehicles after 2008

10. Warranty and Support

DonosHome provides excellent after-sales service, including a **2-year warranty** and professional technical support for the DH300 OBD2 Auto Diagnostic Scanner.
For technical assistance, warranty claims, or any other inquiries, please contact DonosHome customer service. Refer to the contact information provided with your purchase or on the official DonosHome website.

Related Documents - DH300

	DonosHome AT500 OBDII Scanner User Manual Comprehensive user manual for the DonosHome AT500 OBDII Scanner, covering setup, operation, diagnostic functions like reading DTCs, I/M readiness, data stream, and system tests. Includes safety precautions, technical specifications, and warranty information.
	DonosHome AT500 OBDII Scanner User Manual User manual for the DonosHome AT500 OBDII Scanner, detailing its features, operation, and troubleshooting for vehicle diagnostics.

[DonosHome BT60 Battery Analyzer User Manual - Features, Operation, and Testing Guide]

This user manual provides comprehensive instructions for operating the DonosHome BT60 Battery Analyzer. It covers setup, battery testing procedures for motorcycles, cars, and trucks, waveform analysis, charging system tests, and troubleshooting. Learn about technical specifications, warranty information, and safety precautions.