H6D PRO Heavy Duty Intelligent Diagnosis Platform
User Manual

Efficient   Intelligent   Portable

Please read this manual carefully before use
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After sale:

After-Sale Service Hotline(400-880-3086/ 0755-21670995)
Email: aftersales-services@xtooltech.com
Official website:http://www.xtooltech.com

Safety:

- This product is intended for use by automotive technicians only.
- When the engine is running, please keep the maintenance area well ventilated, properly connect the engine and the building’s exhaust system. The carbon
monoxide generated by the engine will cause the body to be unresponsive and even cause serious personal injury or death.

- Wear ANSI-compliant goggles and keep clothing, hair, hands, tools, diagnostics, etc. away from running or hot engine parts.
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Chapter I Product Cognition

1.1 Appearance

1.1.1 Front View

1.1.2 Back View

① Camera  ② Speaker  ③ Nameplate
1.2 Interface of H6D PRO Tablet

1.21 Top View of H6D PRO Tablet
① USB3.0 Port: Data transfer via USB cable
② Mini HDMI Port: Audio and video transfer
③ DB15 interface: Extended reservation port
④ DC charging port: Device charging, using 12V power
⑤ Power button: On/off button

1.2.2 Bottom View of H6D PRO Tablet

① Charger interface, this is a reserved charger interface

1.3 VCI Diagnostic Box Appearance
① Display: Display voltage, Bluetooth connection status, etc.
② DB15 interface: Work together with the extension cable and various types of connectors to communicate with vehicle diagnostic port
③ DB9 interface: Work together with DB9 male to USB3.0 cable to communicate with tablet

1.4 VCI diagnostic Box Parameters
Display screen: 1.54 inches
Energy consumption: 2 W
Connection method: Wired/Bluetooth
Interface: USB DB15 test main line interface
CPU: ARM processor
Shell: Aluminum metal and reinforced plastic housing
RAM: 1MByte
1.5 H6D PRO Technical Parameters

- Operating system: Android
- Processor: quad core processor 1.8GHz
- Memory: 4GRAM, 64GROM
- Display screen: 1280·800 resolution,
- Touch Screen: 10.1 inch LED Compatible touch screen
- Camera: rear camera, 8 million pixels, with flash autofocus.
- Port: USB3.0, DC charging port, HDMI(C type), VGA(DB15).
- Battery: 13000mAh 3.7V lithium polymer battery
- Input voltage: 12V
- Working temperature: -20~50℃ (-4°F~126°F)
- Relative humidity: <90%
- Appearance size: 310.92*189.17*36.21mm
Chapter II How to Use H6D PRO

2.1 Machine Interface

2.1.1 Main Interface

2.1.2 Interface Icon

<table>
<thead>
<tr>
<th>Functional Buttons</th>
<th>Functional descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Username</td>
<td>Username</td>
</tr>
<tr>
<td>【Diagnosis】</td>
<td>【Diagnosis】 Read vehicle diagnosis information</td>
</tr>
<tr>
<td>【Setting】</td>
<td>【Setting】 Language, unit, Bluetooth</td>
</tr>
<tr>
<td>Function Button</td>
<td>Function Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>🌐</td>
<td>Online chatting</td>
</tr>
<tr>
<td>🔁</td>
<td>Upgrade software</td>
</tr>
<tr>
<td>📖</td>
<td>Read vehicle report</td>
</tr>
<tr>
<td>🔒</td>
<td>Xtooltech support center and function keys</td>
</tr>
</tbody>
</table>

### 2.1.2 Interface Task-bar

<table>
<thead>
<tr>
<th>Function Button</th>
<th>Function Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📸</td>
<td>Screenshot</td>
</tr>
<tr>
<td>🎧</td>
<td>Decrease the volume</td>
</tr>
<tr>
<td>🔽</td>
<td>Return to the previous interface</td>
</tr>
<tr>
<td>🔐</td>
<td>Show recently used programs</td>
</tr>
<tr>
<td>🔄</td>
<td>Return to the main interface of Android</td>
</tr>
<tr>
<td>🔊</td>
<td>Increase volume</td>
</tr>
<tr>
<td>🔗</td>
<td>Bluetooth connection. blue light on when connected</td>
</tr>
<tr>
<td>🚗</td>
<td>Back to the diagnosis model interface</td>
</tr>
</tbody>
</table>
2.2 Connecting Vehicle

2.2.1 Connecting Vehicle
Turn on the car ignition switch, connect the VCI diagnostic box to the car OBDII diagnostic seat, wait for 5 seconds for Bluetooth to connect successfully, and select the function for vehicle fault diagnosis.

① H6D PRO Tablet
② VCI box (communication with the tablet by wire or Bluetooth connection, and connect with ③⑤ components to the vehicle diagnostic port)
③ Main cable
④ Tested vehicle
⑤ OBDII-16 Adapter (Select other adapters when the diagnostic port is a non-standard OBDII 16pin connector)

2.2.2 Car Diagnostics Precautions
1. Battery voltage range on the car: +9~+36VDC;
2. When testing the harness, apply the hand to pinch the front end of the harness for plugging and unplugging, and do not plug it obliquely to avoid damage to the terminal.
3. When performing some special function tests, the operator must follow the prompts and meet the test conditions. If there are special functions, the conditions must be met: engine water temperature 80 °C ~ 105 °C, turn off the headlights and air conditioning, the accelerator pedal remains loose. Open position, etc.

4. If the model or electronic control system to be detected is not found in the H6D pro diagnostic function, please upgrade the model diagnostic software to the latest version or consult the company's technical service department.

5. It is not recommended to use the wiring harness of Xtooltech CO., LTD for connection test to avoid unnecessary loss.

6. In H6D Pro communication with the vehicle, direct shutdown is prohibited. The task should be canceled before returning to the main interface.

2.3 Diagnosis

2.3.1 Menu Selection

1. After the VCI diagnostic box has successfully connected the host, you can perform a diagnostic menu selection

2. According to your needs to choose [special function] [natural gas] [agricultural machinery] [engine type] [engineering machinery] [diesel model] [post-processing] [electric control system] for diagnosis, and click on the search icon in the upper right corner. Enter the model for a quick search.

3. In addition the diagnostic functions, the R&D team has developed a series of [special functions] for some mainstream models.
2.3.2 Diagnostic Function

Take Cummins as an example, enter [Electronic Control System] → [Cummins] to enter and display.

![Cummins Engine Auto Detection]

- System Information
- Read Fault Codes
- Erase Fault Codes
- Read Datastream

2.3.3 Function Menu

[System Information] [Read Fault Code] [Clear Fault Code] [Read Data Flow]

1. **Reading computer information in a car**

Read ECU version information. Some electronic control systems display system identification or system information menus, which have the same meaning, and read information such as software and hardware version numbers and part numbers.
2. Fault Code

The fault code function can read the fault code stored in the electronic control ECU. When the fault code is read, the screen displays the fault code and fault code definitions that were read.
4. **Tip:** When detecting the faulty vehicle, if the display system is normal or has no fault code, it means that the relevant fault code is not stored in the ECU or some fault phenomenon is not within the ECU monitoring range, which is mostly a mechanical fault. It is also possible that the sensor has a signal deviation in the range, which can be judged in the data stream function.

5. **Clear Fault Code**
6. **Read Data Stream**
By reading the data stream function, it is possible to read the data value of the control unit.

<table>
<thead>
<tr>
<th>Instrument panel</th>
<th>Pass</th>
<th>No Fault</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combox emergency call</td>
<td>Pass</td>
<td>No Fault</td>
</tr>
<tr>
<td>Control display</td>
<td>Pass</td>
<td>No Fault</td>
</tr>
<tr>
<td>MINI joystick</td>
<td>Pass</td>
<td>No Fault</td>
</tr>
<tr>
<td>Rear-lid module</td>
<td>Pass</td>
<td>No Fault</td>
</tr>
<tr>
<td>Seat memory, driver</td>
<td>Pass</td>
<td>No Fault</td>
</tr>
<tr>
<td>Driver's side footwell module</td>
<td>Pass</td>
<td>No Fault</td>
</tr>
<tr>
<td>Air conditioning system</td>
<td>Pass</td>
<td>No Fault</td>
</tr>
</tbody>
</table>

2.4 **Settings**
2.4.1 [Language] Check the desired language in the many language options on the right side of the interface.

2.4.2 [Unit] Select the unit of measurement, check the metric or imperial system.
2.4.3 [Bluetooth]

1. Enters the settings, clicks Bluetooth, and then clicks Search. The Bluetooth name is the corresponding serial number or Diagnostic.

2. Entering the H6D PRO setup option, the blue icon on the task-bar shows that the connection is successful.

2.4.4 【Self test】 Detects the VCI box.
2.5 XTOOL Cloud

All car service technicians using our equipment can check the maintenance information we put on the cloud service platform, and can be used in conjunction with the results of the car diagnosis, and use the forum to communicate with other users.

2.6 One-Click Upgrade

The device no longer needs to be inserted into the card for upgrade. Just open the application and click [Upgrade].
2.7 Diagnose report
View saved files, including diagnostic reports, data playback, and file management.

2.7.1 View report
View diagnostic reports for different models.
2.7.2 Data Playback
The data playback function allows you to view the model, system, and playback of recorded data.

2.8 Remote Control
The service technician has encountered problems during the repair process. You can
open this application for remote assistance and accept support from the Xtool Technology Center.

1. Boot up, enter the App;
2. Click the [Remote Control] icon to generate and display the device ID;
3. Provide your ID to after-sales technical support staff;
4. The system pops up a window and allows the other party to control for remote control.
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