XTOOL

User Manual

A30 Pro Intelligent Diagnosis System

Version: V6.0

Revise date: 2022.10

Safety instruction

Keep ventilation: When the engine is running, please keep repair zone good ventilation or connect exhaust system of engine and building carefully.

Caution

- Always keep safe condition to diagnose vehicle
- Wear the goggles accord with ANSI standard
- Keep clothes, hair hand, tool, tester etc. away from running or calorific engine
- Before start engine, you should confirm parking braking is working, put barrier in front wheels, and put gear shift lever in neutral gear or park to avoid hurting people on the spot when start engine, vehicle speeds up suddenly
- Be extremely careful when working around the ignition coil, distributor cap, ignition circuit and ignition plug. The voltage generated by these components when the engine is running is very dangerous
- Equipped with special fire extinguishers for gasoline, chemical, electrical fires in the working area
- When the ignition switch is turned on or the engine is running, don't connect or disconnect the diagnostic equipment

- Keep the diagnostic device dry and clean, away from gasoline, water and grease. If necessary, use a clean cloth coated with a mild detergent to clean the surface of the device

- Don't operate the diagnostic equipment while driving the vehicle to avoid distractions and cause accidents

- Please refer to the repair manual when servicing the vehicle and strictly follow the diagnostic procedures and precautions. Otherwise, it may cause personal injury or damage to the diagnostic device

- To avoid damaging the diagnostic device or generating incorrect data, please ensure that the vehicle battery is sufficiently charged and the connection of the vehicle diagnostic socket is clean and safe

- Don't put the diagnostic device on the vehicle distributor. Strong electromagnetic interference will cause damage to the device

Aftersales-services

✉	support1@xtooltech.com support2@xtooltech.com

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☎	+86 755 21670995 / +86 755 86267858 **Monday through Friday** **09:00~18:30 [UTC/GMT+08:00]**
🌐	www.xtooltech.com

*Please kindly provide your product S/N, VIN code and software version
when seeking technical support, which will help us locate your problem.

Content

1. Product Brief

A30 Pro intelligent diagnosis system is a professional vehicle diagnosis device for Japanese automobile. It supports the detection and bi-directional control test for vehicle drive, chassis and body system. It has basic diagnostic functions such as reading fault code, clearing fault code, reading live data, freezing frame, and etc. At the same time, user could experience the complete OBD II function and full system diagnosis. It can help maintenance staff locate faults for vehicle and improve work efficiency.

2. Product Specification

2.1. Appearance

A30 Pro series Intelligent Diagnosis System.
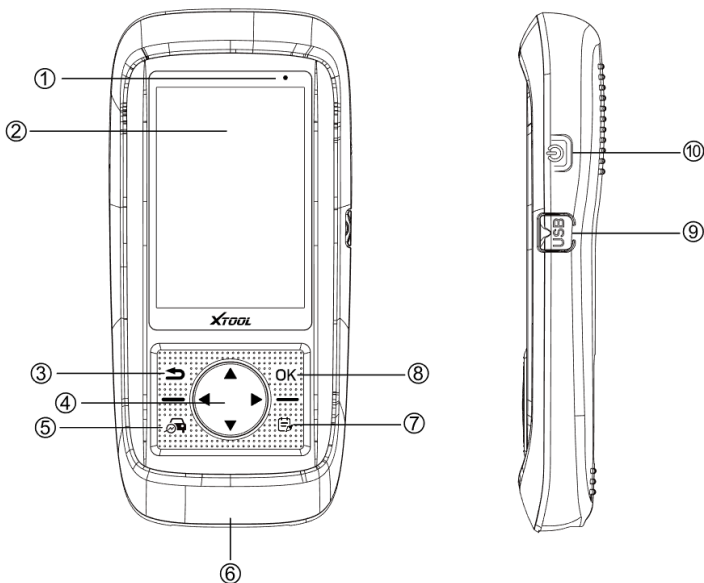

Front view   Back view

The design with blue and black color is simple and terse; the body adopts a streamlined design and a large curvature frame for better grip; the back of the product adopts a protruding

design that is more non-slip and safer. A30 Pro products are equipped with VCI as standard, and the host and VCI are connected via Bluetooth, which is convenient for connection.

VCI Front view

2.2. Ports and Button

No.	Items	Description
1	Charge Lamp	Display status of charge
2	LCD display	Display function menu of product

3	Back	Cancel selection (Or operation) or return to previous menu
4	Direction key	Via direction key to move choosing appoint menu
5	Vehicle diagnosis	Open/switch vehicle diagnosis function
6	DB15 connector	**Only for charging**
7	Speedy guide	Open/switch introduction book
8	OK	Confirm selection
9	USB interface	Connect device to PC to update software or battery charging, a Type-c
10	Power switch	Long press can power on/Power off, short press can turn on/turn off screen

2.3. Parameter

Items	Description
System	Android
CPU	ARM Cortex A7 Quad-Core, Basic frequency 1.2GHz
GPU	Mali-400 MP2 GPU

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RAM	1GB
ROM	32GB
Display screen	4-inch 320x480 Color touch display screen
Working voltage	9~18V
Battery	3000mAh built-in lithium battery
Working temperature	-20℃-60℃
Storage temperature	-30℃-70℃

Note: The working temperature and storage temperature are verified in a

laboratory environment, which are for reference only

2.4. Packing list

Category	No.	Name	QTY
Test connector	1	DB15 TO OBD-16 Main Cable	1
Main Units	1	A30 Pro	1
	2	iVCI	1
	3	USB_TYPE-C	1
	4	Charger for Tablet	1
	5	Power Cable UK	1
	6	Power Cable US	1
	7	Power Cable EU	1
Accessories	1	Certificate of Quality	1
	2	Packing List	1
	3	Tool Case	1
	4	Carton	1

2.5. Connection

Please connect your vehicle to A30 Pro follows below steps:

1. Firstly power on the A30 Pro;

2. Connect the VCI box to the car with the main test cable;

3. Connect the host and VCI box via Bluetooth;

4. Start the diagnosis.

*Note

The DB15 port on bottom only reserved for charging. Please do not connect directly the A30Pro to vehicle by main test cable, which could lead to a communication failure

3.   Start Diagnosis

3.1.   Activation

Please follow below steps to activate your device:

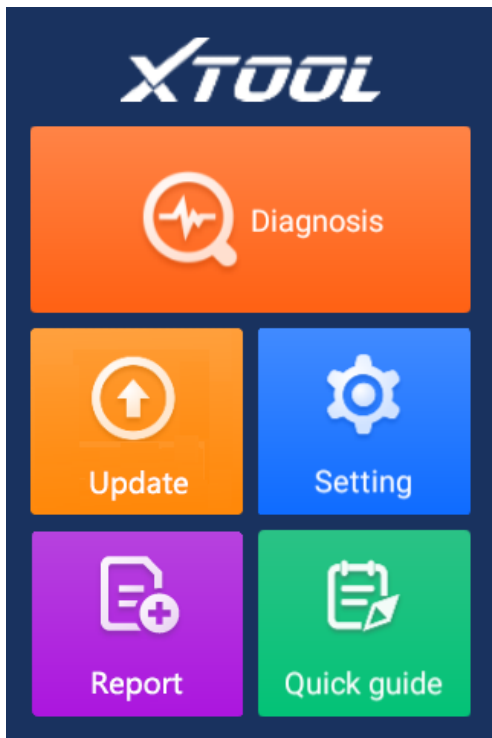**Step 1:** Long press power button to boot up and connect Wi-Fi,

Step 2: Input your email address in activation page to activate you device.

*Note

1. If you do a factory reset of the device, then you need to activate it again.

2. Software will be released new version for fixing bugs, please upgrade it in time for a better user experience.

3.2.   Main Interface

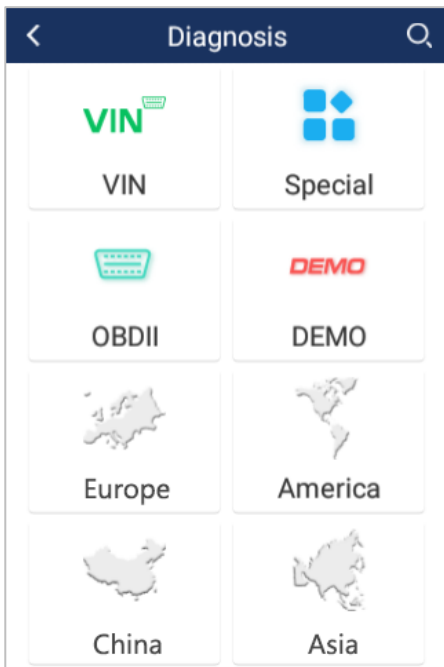After booting, the main interface as shown below.

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Item	Description

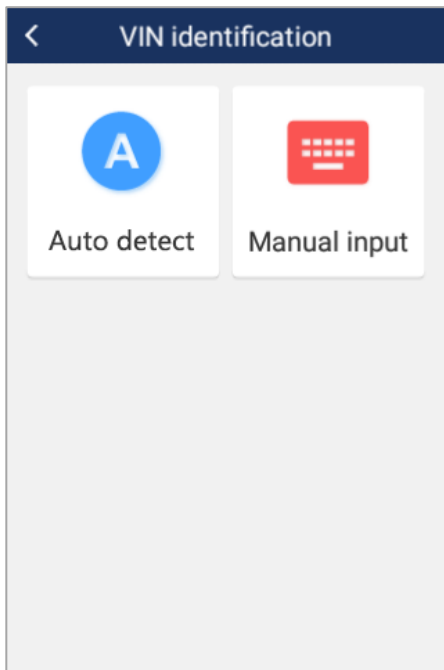|	
	Click to start diagnosis function
	Software that can be updated to the latest version will be displayed here
	You could change the Language, Units, Date & Time, and so on.
	View all historical reports here
	Quick guide for A30 Pro

3.3. Diagnosis

This function is the core module of A30 Pro, which support full system diagnosis for vehicles.

VIN Identification

According to practical requirement, user can choose to automatic identification, or manual input the car VIN code

Vehicle Selection

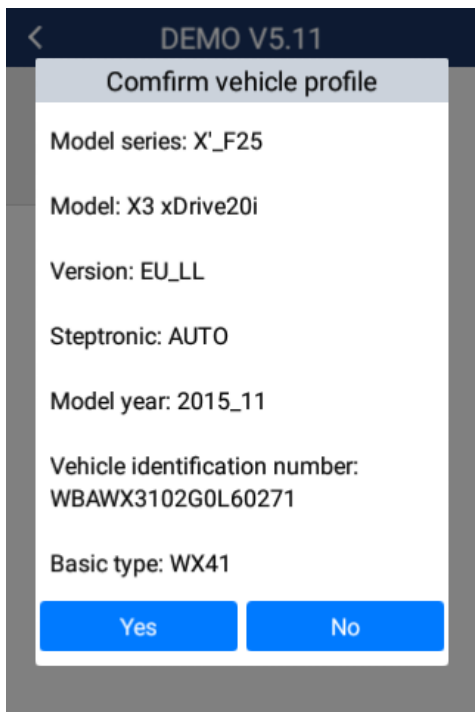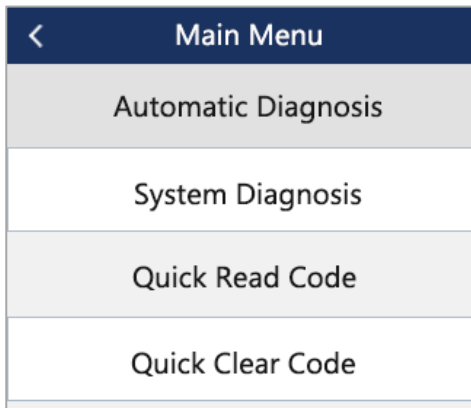A30 Pro supports 98% of the car on the market from America, Europe, Asia, and China. User can choose vehicle model for diagnosis according to their needs.

‹ European vehicle	
BENTLEY	FERRARI
BENZ-TRANSPORTER	FORD(EU)
OPEL	ALFA
VOLVO	ABARTH

Demo

This function is used for demonstration. User can view all of the functions in A30 Pro without changing any settings.

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<   DEMO V5.11

Comfirm vehicle profile

Model series: X'_F25

Model: X3 xDrive20i

Version: EU_LL

Steptronic: AUTO

Model year: 2015_11

Vehicle identification number:
WBAWX3102G0L60271

Basic type: WX41

Yes	No

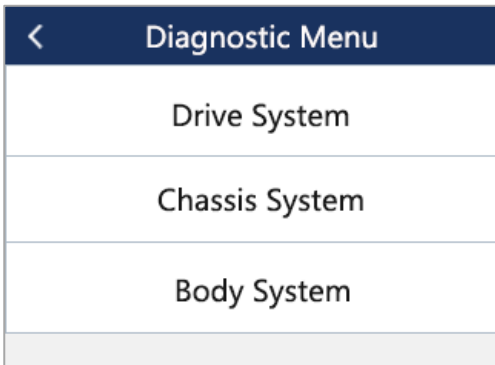| <	Main Menu
	Automatic Diagnosis
	System Diagnosis
	Quick Read Code
	Quick Clear Code

● **Automatic Diagnosis**

Support automatic scanning and diagnosis of the whole vehicle system

● **System Diagnosis**

Supports scanning and diagnosis of a single system

<	Diagnostic Menu
	Drive System
	Chassis System
	Body System

- **Quick Read Code**

Support fast reading of fault codes

- **Quick Clear Code**

Support fast clearing of fault codes

Basic Function

A30 Pro will enter diagnose function after confirming vehicle model. The normal function includes reading ECU version information, Read ECU code, read fault code, read freeze frame, quick clear codes, read live data, and Reset control unit. There will be some differences among different vehicle models.

‹ Digital Engine Electronics
Read ECU Information
Read Trouble Code
Clear Trouble Code
Live Data
Actuation Test

Read ECU Info

This function allows user to read ECU version information. Some electronic control system

displays system identification or system information menus, which have the same meaning, and read information such as software, hardware version numbers, part numbers, and etc.
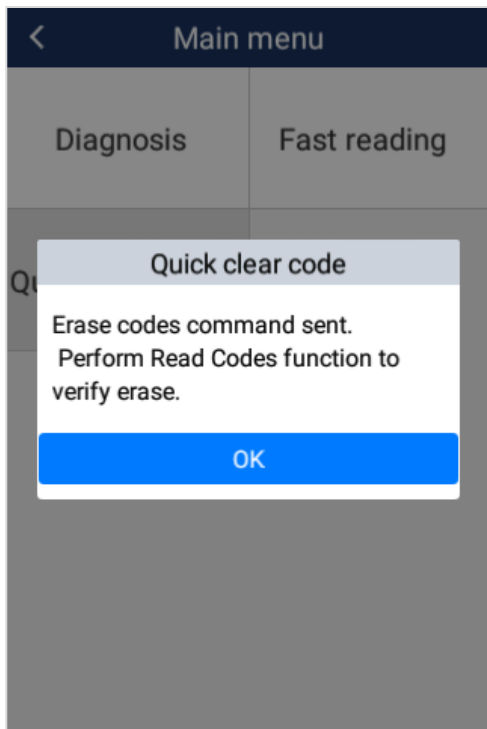
Read Trouble Code

This function allows user to read the fault code stored in the electronic control ECU. When the fault code is read, the screen will display it and its definition.

<	**TROUBLE CODE REPORT**
8020B8	Tank fill-level sensor, left: short circuit to positive or open circuit
8020B9	Tank fill-level sensor, left: signal invalid
E71464	Signal (fuel tank level left, 0x330) invalid, transmitter KOMBI
80118B	Air conditioning compressor: Shut-down due to excess pressure in refrigerant circuit
E12C01	Left fuel level sensor: Short circuit to B+

Clear Trouble Code

This function allows user to clear current and historical trouble codes memory in ECU.

The trouble codes cannot be erased without eliminating the related fault. If a problem is not solved, the related code will remain, and be stored in ECU, which leads to it can be read by

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diagnostic.

Read Freeze Frame

This function allows user to read the trouble codes that are stored in the ECU at the moment, when vehicle has faults.

Notice

1. Save or print the currently stored fault codes before clearing them in the case of an intermittent fault, or for further main maintenance. If a problem is solved, the related code will disappear.

2. *Recommend to read the ECU code again to reconfirm that previous fault codes have been cleaned*

Read Live Data

This function allows user to read the parameters of the system on operating condition, such as oil pressure, temperature, engine speed, fuel oil temperature, coolant temperature, intake air temperature, etc. By analyzing these parameters, user can find out which part works abnormally, and narrow maintenance scope.

Live Data is important function that can be used to help experienced user to further diagnose a problem. This function requires users to be familiarized with sensor data of each system, control signals and control modes.

<	Diagnosis request
☐	Engine speed
☐	Coolant temperature
☐	Engine oil temperature
☐	Emissions warning light: Status
☐	Emissions warning light: Distance travelled since activation
☐	Status, engine warning light
☐	Operating time since engine start
☐	Operating hour counter
☐	Operating mode
☐	Idle: Status
☐	Idle: Target speed

OK   **Select all**

Function Select

Name	Value
Engine speed	45.75 1/min
Coolant temperature	90.75 degree C
Engine oil temperature	597.00 degree C
Emissions warning light: Status	off
Emissions warning light: Distance travelled since activation	N/A km
Status, engine warning light	255

< Diagnosis request

Pause

Read live data

Reset Control Unit (Bi-directional Control)

This function allows user to figure out whether a specific

subsystem or component in the car works well or not, and to make the tester outputs function.

< Reset control unit	
Execute function:	Reset control unit
Test process:	Resetting control unit

(This picture is only for reference)

The vehicle engineers responsible for designing computer control systems programmed them so a scan tool could request information or command a module to perform specific tests and functions. Some manufacturers refer to bidirectional controls as functional tests, actuator tests, inspection tests, system tests or the like. Reinitialization and reprogramming also can be included in the list of bidirectional controls.

This function allow device sends information to, and receives information from, vehicle control modules. For example, in the case of OBD II generic information Mode 1 (which relates to

data parameters), the scan tool user initiates a request for information from the powertrain control module (PCM), and the PCM responds by sending the information back to the scan tool for display. Most enhanced scan tools also have the ability to actuate relays, injectors and coils, perform system tests, etc. Users could check the individual part to see what is working properly by actuation test.
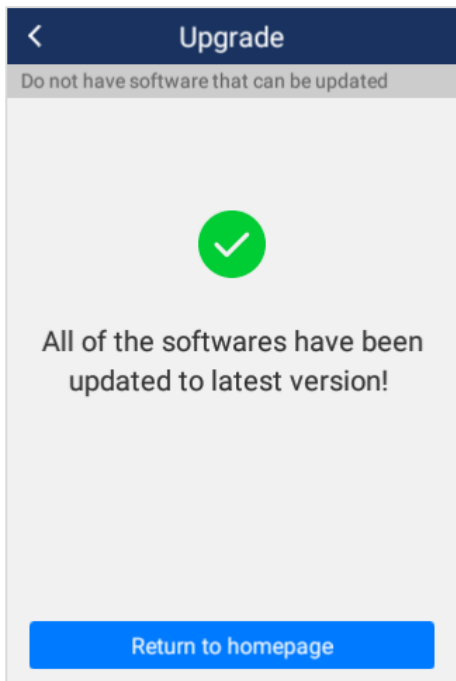
3.4. Special functions

Special functions provide maintenance services for different systems of the vehicle, and support users to perform a various reset, re-learning, or matching functions when replacing the component or encountering failures.

Oil Light Reset	BMS Reset	Injector Coding
EPB	Throttle	Key Programmer
SAS	TPMS Reset	Gearbox Match
DPF	ABS Bleeding	Suspension
Headlight	Gear Learning	

3.5. Update

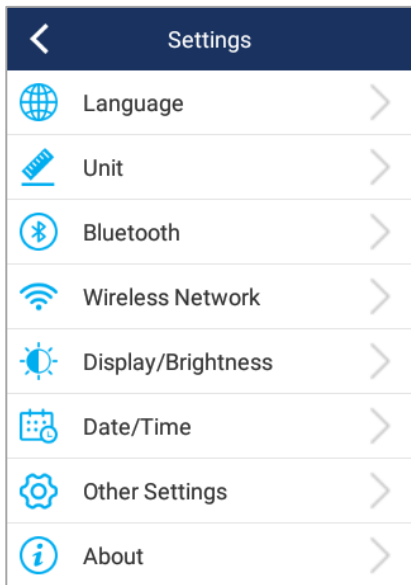The A30 Pro supports one-click upgrade to renew software quickly to experience the latest function;

Notice: when a new software is released, an update notice will be shown on screen,
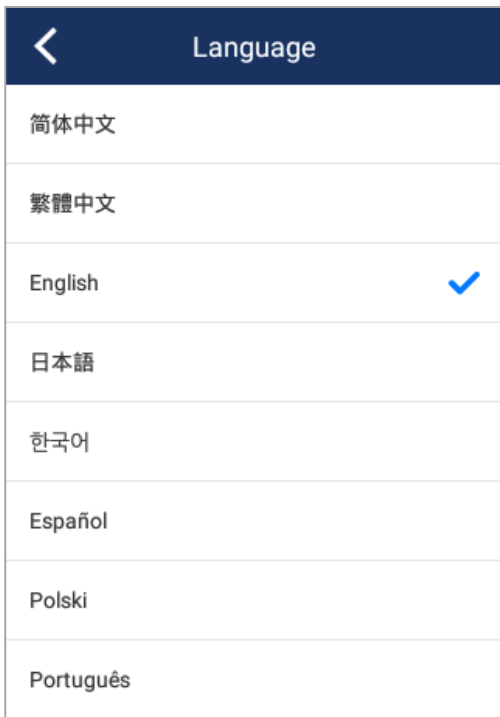
customer can choose to upgrade or not.

3.6. Settings

Select the "Settings" menu to open the setting interface. You can

set the language, unit and system-related options on this interface. The following 8 options as shown below:

■ Language：Please select the language according to the device configuration, otherwise the diagnosis interface menu will not be displayed.

←	Language	
简体中文		
繁體中文		
English		✔
日本語		
한국어		
Español		
Polski		
Português		

■ Please follow the steps below to switch languages▼

Step 1: Contact your dealer and leave a message about the language you need and the S/N of your device until they notify you that the language

change is complete

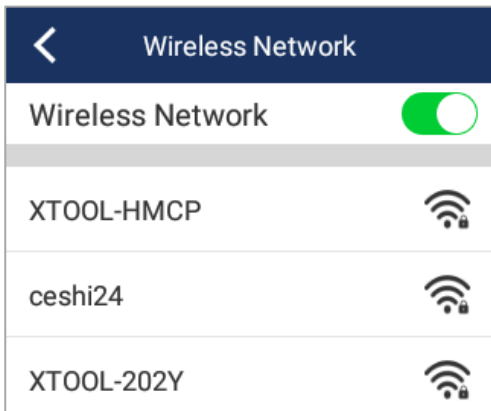**Step 2**: Settings->Language->Choose language

Step 3: OS Settings->Language & input->Choose Language
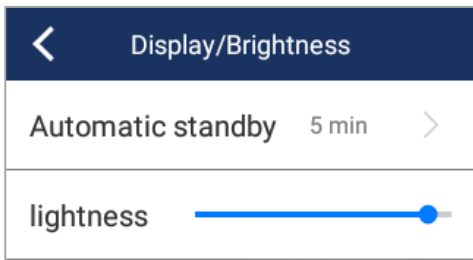
Step 4: Back to **Update**

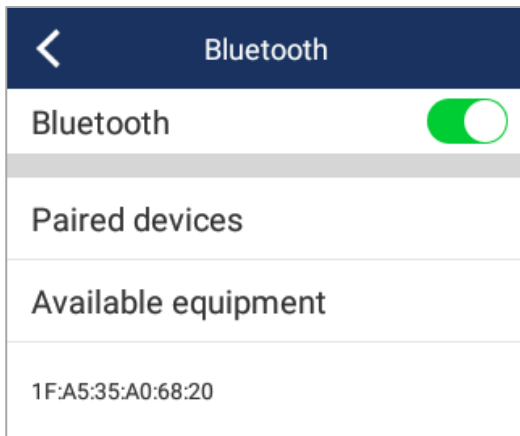■ Unit: Select the unit of measurement, users can select Metric, Imperial or U.S. unit system.

‹	Unit	
Metric Units		✓
Imperial Units		
U.S.Units		

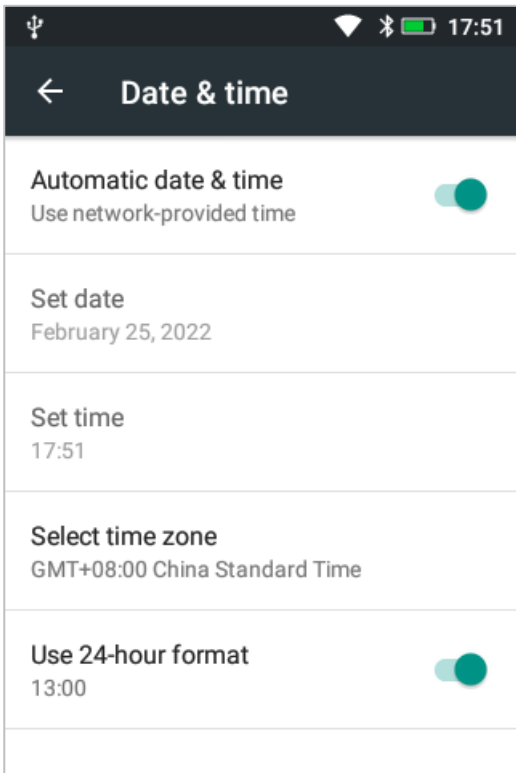■ Wi-Fi: Choose a suitable wireless network connection to perform data transmission and Internet access

- Display/Lightness：Users can adjust the brightness of display and the time interval of the host's automatic standby according to their own conditions to achieve better experience.
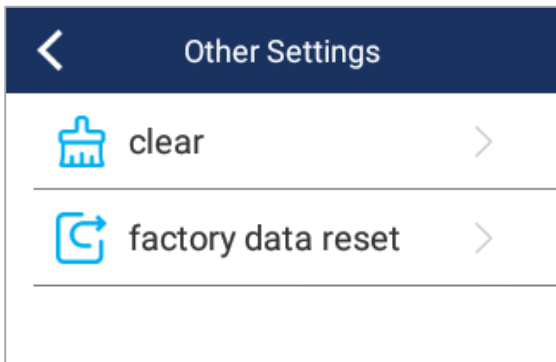
■ Bluetooth：You can select the Bluetooth to pair.

＜	Bluetooth
Bluetooth	🟢
Paired devices	
Available equipment	
1F:A5:35:A0:68:20	

■ Date/Time：User can set the date and time of the system here

■ Other settings：Users can clean up the system cache and restore factory settings

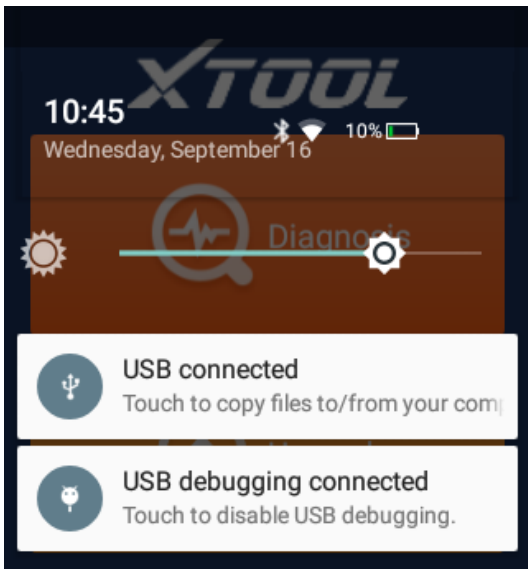| <	Other Settings	
🧹 clear		>
🔄 factory data reset		>

Notice

Before clearing the cache and restoring the factory settings, please confirm whether the required information has been saved or backed up, if the losses caused by this, Xtooltech has no liability or responsibility for that.

■ About: Users can the information of the device.
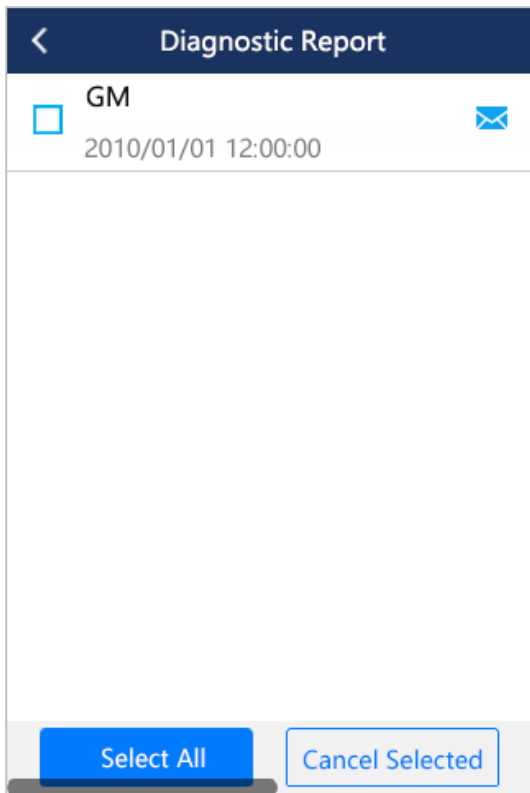
<	About
Device Name	Common
serial number	unknown
RAM	1GB
Available space	2.56GB
Hidden partition	20.38 KB
Resolution	320X480
OS version	1.0.8
Set version	1.0.0

■ Tool tip

Pull down the top of the screen to call out the notification bar, you can view the current system time, power, Bluetooth and wireless connection information, and quickly adjust the lightness of the display

3.7. Report

Report function allows user to check and delete all historical diagnostic reports here.

Click on ✉, reports also can be sent and shared by email, just need to enter the receiver's email address.

3.8. Quick Guide

A30 Pro provides an online user manual, which could be used to learning the product function at any time.

User can open Quick Guide by click the menu icon on screen, or press button on the bottom right.

Notice: A catalogue has already been added in the Quick Guide. By clicking the title, user can reach corresponding contents directly and easily.

4.   FAQs

Q1. "Wi-Fi connection timed out"

A1: This device does not currently support Wi-Fi 6 and security protocol WPA3, please check the type of your Wi-Fi and the security protocol, please change the security protocol to WPA2, and enable maximum compatibility.

If you still cannot connect to Wi-Fi, it is recommended to try a mobile phone hotspot or other Wi-Fi.

Q2. Bluetooth connection failed

A2: Please follow the instructions below to troubleshoot the problem：

- Step 1: Firheck whether the status of the indicator light on the BT dongle is normal: the red light indicates that the power supply is good, the blue light indicates that the Bluetooth connection is successful, and the green light indicates that the device communicates successfully with the car. If the red light is not on, it may be a hardware failure of the BT dongle

- Step 2: If the blue light is not on, please make sure you are within the effective communication range of Bluetooth, and there are no obstacles blocking the

communication signal (effective Bluetooth
communication distance: 10m)
- Step 3: If the device still cannot communicate
  successfully with the VCI box via Bluetooth,
  please contact XTOOL technical support email:
  support1@xtooltech.com
  support2@xtooltech.com

Q3. "Activation failed" or "Registration failed"

Q3: Please make sure that your network is stable and the
network traffic from China is not blocked, and try to activate
the device at another period, or use a mobile phone hotspot or
other Wi-Fi to activate the device.

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To know more details, please visit official website：http://www.xtooltech.com

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