XHINKCAR
THINKCAR

TKX11
Quick Start Guide

1 Quick Start Manual

1.1 Initial Use
The following settings should be made when you initially use the device.

1.1.1 Turn on the Machine
After pressing the power button, images will be shown on the screen as follows.

1.1.2 Language Setting
Select the target language from the languages displayed on the interface.

1.1.3 Connect Wi-Fi
The system will automatically search all available Wi-Fi networks. Please connect to the trusted Wi-Fi.

⚠ *Tips: Wi-Fi must be on. If there is an Wi-Fi network is available nearby, you can try "Portable Mobile Hotspot".*

1.1.4 Choose Time Zone
Choose the time zone of the current location, then the system will automatically configure the time.

1.1.5 User Agreement
Please read all the terms and conditions of the user agreement carefully. Choose "Agree to the above terms", and tap"Next".

1.1.6 Create an Account
You need to use your email account to register a THINKCAR personal account. This account can be applied to all THINKCAR products, and you can log in directly with this account when using other THINKCAR device.

1.1.7 VCI Activation
Enter the connector serial number and activation code to activate and bind the diagnostic connector. If you have not activated it, you can also click "User 8/A1" to enter on the main interface, and operate in "My Device" Interface Click "Add Device" button,

⚠ *Tips: The activation code is on 8-digit number and is pasted on the "password letter".*

1.2 Diagnosis Flowchart

1.3 Function Menu
After startup, the system will automatically enter the homepage:

1.4 Charging
Follow the steps below to charge the device:
- Use the Type-C charging port, the USB port and the power socket to charge,
- When the battery status displays ⚡ the device is charging,

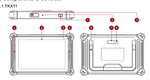
When it displays ■ , the charging process has been completed and you shall disconnect the device.

1.5 VCI Connections
Connect the OBDII 16 Connector to the OBDII port of the vehicle, and then use the Diagnostic Extension Cable to connect to the THINKLINK VCI. The vehicle OBDII port is usually located under the dashboard, on the driver's side above the pedals. Below are five locations for the most common OBDII ports.

2 Introduction

2.1 Product Profile
The TKX11 video remote diagnosis device (hereinafter referred to as TKX11) has dual functions of diagnosis and video. It not only has the diagnostic functions but also complete the remote vehicle diagnosis through real-time communication of equipment, so that the diagnosis is not bound by space.
TKX11 supports voice and video communication, and provides massive technical maintenance expert support anytime. TKX11 remote service mechanics and certified technicians can provide remote diagnostic services according to maintenance needs, and remotely solve auto repair problems for you.

2.2 Components & Controls
2.2.1 TKX11

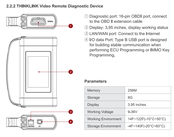


① Power Key
Long press to power on or off
Click to sleep or wake the device
② Microphone
③ Type C interface: for charging and data transmission
④ Speaker
⑤ Display
⑥ Adjustable bracket: supports three states of hanging, supporting and normal.
⑦ LED Lamp
⑧ 13 Megapixel Rear Camera

Parameters

Operating System	Android 10.0	Camera	Rear Camera 13.2MP
Memory	4G	Network	Wi-Fi,WLAN 802.11b/g/n
Storage	128G	Bluetooth	Bluetooth 5.1
Battery	12000mAh,3.7V	Working Environment	-10°~12(F)-10°C~50°C)
Screen	10.1 inches	Storage Environment	-4F~140F(-20°C~60°C)

2.2.2 THINKLINK Video Remote Diagnostic Device



① Diagnostic port: 16-pin OBDII port, connect to the car's diagnostic port
② Display: 3.95 inches, display working status
③ LAN/WAN port: Connect to the Internet
④ 8D data Port: Type B USB port is designed for building stable communication when performing ECU Programming or IMMO Key Programming.

Parameters

Memory	256M
Storage	8G
Display	3.95 inches
Working Voltage	9.36V
Working Environment	-10F~122(F)-10°C~50°C)
Storage Environment	-4F~140F(-20°C~60°C)

3 Diagnosis

Diagnostic function, covers the mainstream car brands on the market. Support intelligent diagnosis and traditional diagnosis, including OBDII full-function diagnosis, Full-system diagnosis includes: read fault code, clear fault code, read real-time data stream, special function, actuation test. A diagnosis report can be generated after the diagnosis.

3.1 VIN&SCAN
VIN&SCAN supports quick access to the test vehicle system, no need to manually select the vehicle system.
Click "Diagnostics" on the home page of the device, and then click the "VIN&SCAN" button to enter the function page.
A. Intelligent diagnosis: The user can connect the vehicle through the diagnosis line to read the VIN from the vehicle ECU, Then compare the read VIN with the server to obtain vehicle information, and then enter the vehicle diagnostic software system. This method is the fastest made by selecting the menu level by level in the past, which is slow and easy to choose wrongly.
B. Enter VIN: Manually enter the VIN code of the vehicle, and then click "OK" to enter the diagnosis function.

3.2 Manual Diagnosis
A. Select vehicle type: Click the vehicle model software icon on the diagnosis interface, enter "OK" and enter the diagnosis menu, Diagnosis menus may be different for different car models.
B. Select diagnosis method: After successfully communicating with the vehicle, it will enter the diagnosis function selection interface, TKX11supports the system topology map function,

1) Smart Scan: It enables you to quickly access all the Electronic Control Units of the vehicle and generate a detailed report about vehicle health.
2) System Scan: To check how many systems the car is equipped with.
3) Choose to Scan: Choose the target automotive electronic control system to scan.

3.3 System and Function
A. Click the Electronic Control Units module, and the screen will enter the function selection interface.
B. Click to select the function to perform.

1) Version Information: Read the current version information of the automotive ECU.
2) Read Fault Code: Read the DTC in the ECU memory to help maintenance personnel locate the cause of the failure.
3) Clear Fault Code: The system will automatically delete the existing fault codes.
4) Read Data Stream: View and capture (log) real-time live data from ECUs.
5) Actuation Test: Used to test whether the execution components in the electronic control system can work normally.
6) Special Function: Used for data writing operation of electronic control unit, They all belong to this category, such as ECU data calibration, ECU Programming etc. Some maintenance functions are also included in this part.

4 ThinkLink

Remote Diagnosis is a service system that integrates remote diagnostic platforms and professional remote diagnostic device, Including remote service platforms, remote diagnostic device (repair), and THINKLINK Remote Service Box(server).

4.1 Remote diagnosis flow

4.2 Connect and start remote diagnosis
(1) Shut down vehicle ignition switch.
(2) Connect THINKLINK to the OBD II diagnostic port of the vehicle

⚠ *Note: It is suggested that during remote diagnosis, the battery of the vehicle should be connected with an external charging power supply to avoid battery loss of the vehicle and the failure of the vehicle to start due to the long time of remote diagnosis.*

(3) Connect one end of the delivered network cable to the LAN/WLAN port of the THINKLINK and the other end to the network port of the vehicle.

⚠ *Note: It is suggested that during remote diagnosis, the battery of the vehicle should be connected with an external charging power supply to avoid battery loss of the vehicle and the failure of the vehicle to start due to the long time of remote diagnosis.*

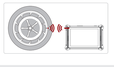
(4) Turn on the ignition switch.
(5) After the connection between TKX11 (repairer) and service box (server) is completed, the service box will prompt "connection".
(6) In the remote diagnosis area of TKX11, select an appropriate service for (text, voice, or video) communication.
(7) After reaching an agreement with the server, the other side will create a service order, and the repairer will wait for the remote diagnosis service.

⚠ *Note: using the "Remote Service" function at the bottom of the dialog box, you can initiate a server to remotely operate your device.*

5 TPMS

THINKTOOL X10 Pro device supports tire pressure sensor activation, reading, diagnosis, and data stream viewing functions.
- Read the tire pressure sensor ID, pressure, temperature, battery status,
- Activate the tire pressure sensor of THINKCAR, can achieve the original factory level accuracy,
- Can cover more than 95% of car models.

⚠ *Note: The tire pressure modules of THINKTOOL X10 Pro is built into the main unit. When using it, please place the upper left side of the device close to the tire pressure sensor.*



6 Maintenance

The maintenance function supports the matching, codes and common functions of the programmable module of most models, and the maintenance services of different models have different maintenance services.
The maintenance function is supported by TKX11 are: Oil Reset, Elec. Throttle Bm, SAS Reset, BAT. Match, Bleeding, Brake Reset, DPF Reg., Gear Learn, Immo, Injector, TPMS Reset, Sus Reset, AFS Reset, GearBox Learn, Sun Roof, EGR Adaption, ODO Meter, Airbag Reset, Transport Mode, A/F Reset, StopStart Reset, NOx Sensor Reset, AdBlue Reset, Seats Calibration, Coolant Bleed, Tyre Reset, Windows Reset, Throttle Calibration, Steering Angle Calibration, Injector Coding, Electronic Parking Brand System, Engine Power Balance Monitoring, Gas Particulate Filter Regeneration, Motor Angle Calibration, High Voltate Battery Diagnostics, IMMO PROG (optional),

7 Other function

7.1 ADAS
Advanced driver assistance systems (ADAS) is an electronic component in vehicles that assists drivers in driving and parking functions. It can provide automated alerts and safety. lane departure warning(LDW), lane keeping assistance, blind spot elimination, night vision cameras, and self-adaptive lighting.
Most ADAS systems are shipped in defaults to the disable status, it need to be used with ADAS calibration tool of THINKCAR for activation. It is mainly for calibrating driver assistance systems such as cameras and radars, e.g. front-facing cameras for lanes departure warning systems, radar sensors for ACC (self-adaptive Cruise control) or cameras for self-adaptive headlights.

7.2 Think File
It is used to record and establish the file of the diagnosed vehicles, The file is created automatically when you start VIN and check time, including all VIN-related data such as diagnostic reports, data stream records and pictures.

7.3 Repair Info
A. OBD Fault Code Library: You can enquire the definition of OBD fault codes.
B. Vehicle Info: You can enquire the vehicle model, engine model, year and other information to enquire the support functions and diagnostic system.
C. Learning materials: You can view the operation playback of the special functions of each brand model, to help users study the operation of the special functions online without connecting the vehicle.
D. User Manual: You can find the E-Manual in here.

7.4 Feedback
If you encounter an unresolved problem or diagnostic software bug during diagnosis, you can submit the feedback on the Feedback Page. The system will automatically upload the feedback, we will analyze and troubleshoot it in a timely manner, to improve the quality of our products and user experience.

7.5 Other
7.5.1 Remote Assistance:
Support remote technicians or after-sales personnel to operate the device, and guide and solve problems encountered during the use of the device.

7.5.2 Message
You can view the service providers authorized for the remote diagnosis function, Feedback to them about problems in use and get help with vehicle diagnosis and repairs.

7.5.3 Can Bus Pin Detection
Used to detect vehicle OBD II diagnostic socket pin voltage and supported protocol types.

7.5.4 Voltage Check
Read the voltage change value before and after the engine starts through the OBD II port.

7.6 User Info
Support user information modification and setting, Including: VCI management, Firmware Fix, Data Stream Sample, Business Information/Customer Management, System Settings, etc.

8 Warranty Terms

- This warranty applies only to users and distributors who purchase THINKCAR products through normal procedures.
- Within one year from the date of delivery, THINKCAR warrants its electronic products for damages caused by defects in materials or workmanship.
- Damages to the equipment or components because of abuse, unauthorized modification, use for non-designed purposes, operation in a manner not specified in the instructions, etc. are not covered by this warranty.
- The compensation for dashboard damage caused by the defect of this equipment is limited to repair or replacement, THINKCAR does not bear any indirect and incidental losses.
- THINKCAR will judge the nature of the equipment damage according to its prescribed inspection methods. No agents, employees or business representatives of THINKCAR are authorized to make any confirmation, notice or promise related to THINKCAR products.

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Products tutorial, videos, Q&A and coverage list are available on Thinkcar official website.

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FCC Statement
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

SAR Information Statement
Your Remote Diagnostic Service is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the United States. The limits are part of comprehensive, multi-agency guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial margin of safety to give additional protection for the public and to assure for any variations in measurements. The exposure standard for Remote Diagnostic Service employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the Remote Diagnostic Service while operating can be well below the maximum value. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a Remote Diagnostic Service model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model Remote Diagnostic Service when worn on the body, as described in this user guide, is 0.44 W/kg (Body-worn measurements differ among Remote Diagnostic Service, depending upon additional enhancements and the SAR value might be lower, all Remote Diagnostic Service meet the FCC RF exposure guidelines. Body-worn measurements differ among Remote Diagnostic Service, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this Remote Diagnostic Service with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this Remote Diagnostic Service is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea after searching on FCC ID: 2AUKRDS07K011 Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at http://www.wow-com.com. * In the United States and Canada, the SAR limit for Remote Diagnostic Service operated on the cellular network is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.
The SAR test distance is 0mm.

IC Statement
This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.
Cet appareil contient des émetteurs / récepteurs exempts de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage,
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

SAR Information Statement
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