



KEY TOOL MIDI



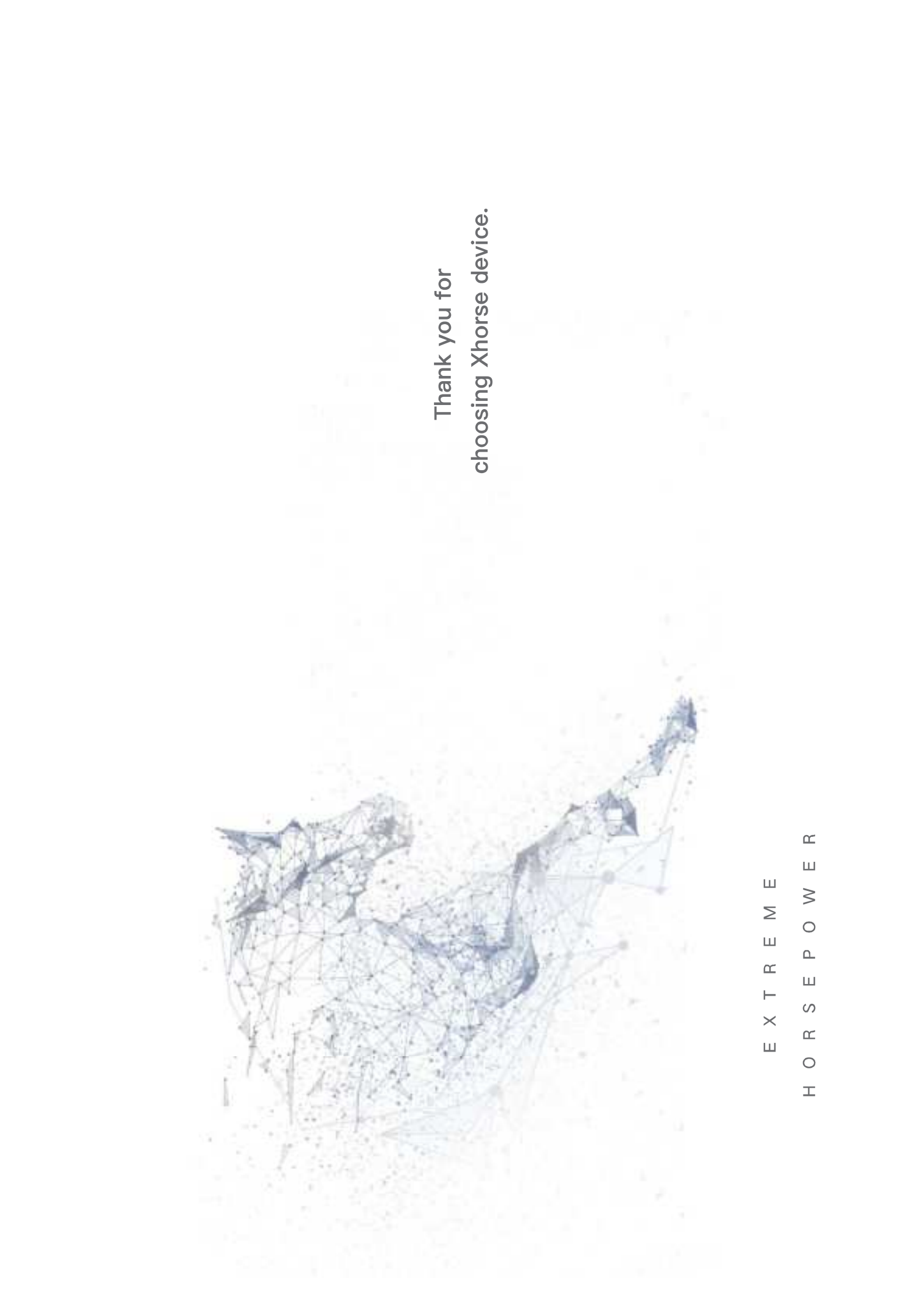
Xhorse APP



User Manual



*Read this user manual carefully before using the device.



Thank you for
choosing Xhorse device.

E X T R E M E
H O R S E P O W E R

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1 Disclaimer

Dear user, thank you for choosing the integrated device KEY TOOL MIDI developed by Shenzhen Xhorse Electronics Co., Ltd.(Xhorse). To help you use the device more efficiently, please read this manual carefully before use and strictly follow the guidelines below:

- This device is intended for use only by locksmiths who have obtained authorization from the car owner to create and program car keys and tire pressure sensors. It must not be used for illegal purposes. Please adhere to relevant national laws and regulations.
- Any risk follows the illegal use of this document and Xhorse KEY TOOL MIDI will be the user's responsibility. Xhorse does not share it.
- Xhorse does not assume any direct, indirect and incidental compensation for damage or any other indirect economical losses.

2 Safety Precaution

For your own safety and the safety of others, and to prevent damage to the device and vehicles upon which it is used, it is important that the safety instructions presented throughout this manual be read and understood by all persons operating or coming into contact with the device.

- Do not place the device in a strong electromagnetic environment for strong electro-magnetic interference may damage the device.
- Wear ANSI-compliant safety goggles while operating the device.
- Do not plug in the power supply that does not conform to the power standard (see Chapter 4.3).
- Turn off the device if you are not using it for a long time or when it's under maintenance.
- Do not place the device in a humid, oily or dusty environment.
- Do not press the device hard, drop the device, or expose the device to heavy sunlight.
- Keep the device out of the reach of babies and children.

3 Product List

KEY TOOL MIDI comes with the following items. If you are missing any of those, please contact your local dealer. For specific functions of all the accessories, please see Chapter 4.

No.	Items	Amount	Description
1	KEY TOOL MIDI	1	KEY TOOL MIDI tablet
2	TPMS Adapter	1	Tire Pressure Function Adapter
3	Charger	1	Fast charging plug
4	USB3.0 TYPE-C cable	1	USB charging cable
5	OBD_DB25 cable	1	OBD cable
6	OBD_KIA_10 connector	1	OBD connector
7	OBD_KIA_20 connector	1	OBD connector
8	OBD_HONDA_3 connector	1	OBD connector
9	Prog_Adapter cable	1	Adapter programming cable
10	Remote_PS2 programming cable	1	Remote programming cable
11	User Manual	1	Device instruction
12	Certification and warranty card	1	Certificate of conformity and warranty card

4 KEY TOOL MIDI Overview

KEY TOOL MIDI is a portable, specialized tablet device developed for locksmith market by Shenzhen Xhorse Electronics Co., Ltd.(Xhorse). This device combines OBD immobilizer programming, remote (including smart key) generation, transponder clone, Xhorse TPMS Sensor generation, cloning and programming, as well as reading and writing common vehicle storage chips. Additionally, it can be expanded to serve as an operating display screen for Xhorse (Condor, Dolphin, Panda series) key cutting machines.

4.1 Main interface



Fig. 4.1

4.1.1 Icon illustration

Account Center: Click the account icon in the top left corner to access the personal account center, where you can view account information, points details, account verification status, and information about devices linked to the account.

WiFi and Bluetooth: Click the icon for the WiFi and Bluetooth connection settings.

Search: Type in the car model to quickly search its programming options on remote, key, transponder and immo programming. See Fig. 4.1.1.

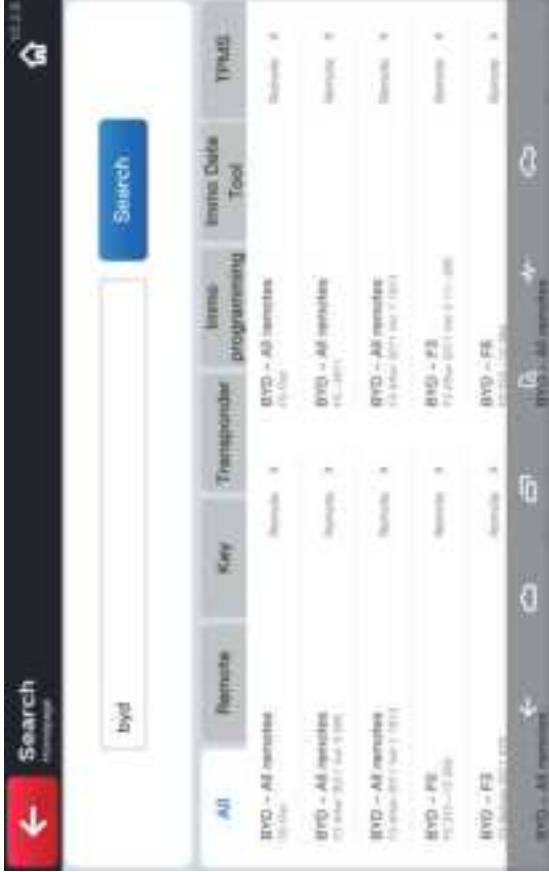


Fig. 4.1.1

Bonus: Click the icon to check the points of the currently logged-in account, as well as the points status of all linked devices under this account, as shown in Fig. 4.1.2.



Fig. 4.1.2

Update: Click the icon to quickly access the latest system version information, activation list, update logs, and more, as shown in Fig. 4.1.3.



Fig. 4.1.3

4.1.2 Main function menu

	Immo Programming Vehicle OBD immo programming menu (see Chapter 5)		Vehicle Diagnostic OBD diagnostic function menu for vehicles (see Chapter 5)
	Transponder Clone Read and clone vehicle transponders (see Chapter 6)		Generate Transponder Vehicle remote transponder generation (see Chapter 6)
	Remote Program Vehicle remote generation (see Chapter 6)		Remote Clone Vehicle remote function generation menu (see Chapter 6)
	Cut key Control the function of key cutting machine (see Chapter 10)		Cloud diagnosis mode-C Remote generation function menu for car keys (see Chapter 8)
	Immo Data Tool Direct Immo Box Start Function (see Chapter 9)		TPMS Menu for TPMS sensor generation, programming, cloning, and diagnostics (see Chapter 7)
	Special Functions Various special functions supported by the device (see Chapter 11)		
	More Other common functions of KEY TOOL MIDI, including: ① Update Center — System, software, firmware, and database updates. ② Settings — Device general settings (see Chapter 12). ③ My Favorites — Frequently used function menu. ④ History Records — Device usage history menu. ⑤ Prog — Supports reading and writing 8-pin storage chips. ⑥ News Center — Updates and promotional notifications. ⑦ Feedback & Suggestions — Suggestions and feedback on device functions. ⑧ AI Query — VIN-related information query. ⑨ Help Center — Video tutorials, documentation, and articles.		

4.2 Ports and accessories

4.2.1 Name of device ports

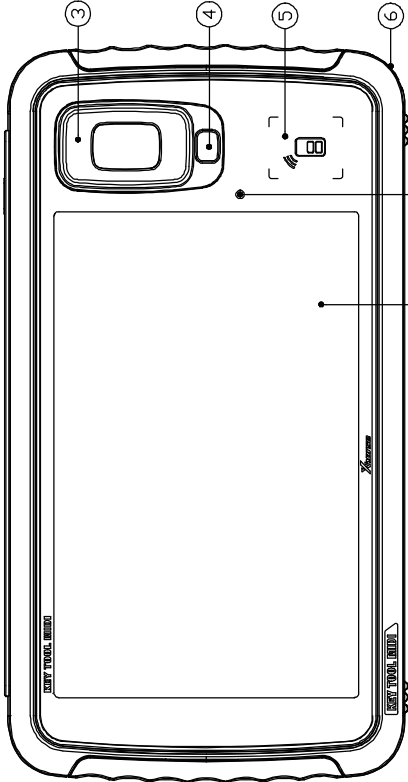


Fig. 4.2.1 KEY TOOL MIDI Front View

- ① Screen
- ② Light sensor-----detect the brightness in the current environment
- ③ Detection coil (including 125K low, 300–900M high frequency)
-----Support reading, writing and cloning common immo transponder
-----Support frequency detection of common vehicle remotes
- ④ Immo transponder placement hole-----for vehicle immo transponders
- ⑤ Common NFC Card Identification (13.56M Mid Frequency)
-----Support recognition of common access control ID chips
-----Support recognition of common access control IC chips
- ⑥ Reserved portable installation hole

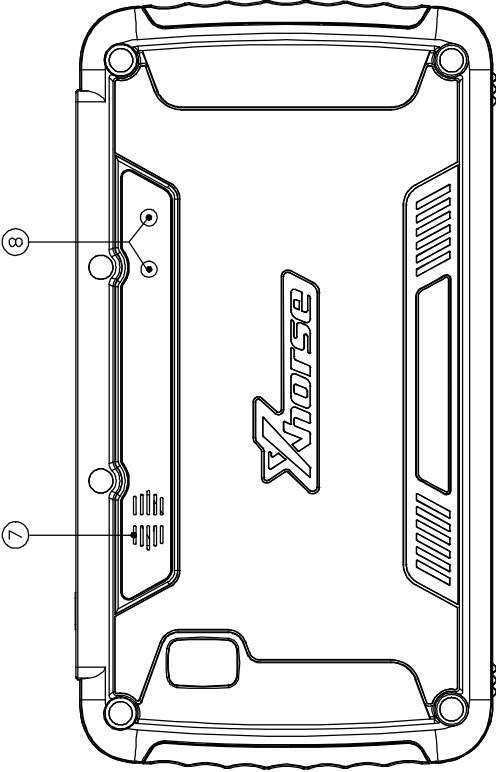


Fig. 4.2.2 KEY TOOL MIDI Rear View

- ⑦ Speaker
- ⑧ Camera & flashlight

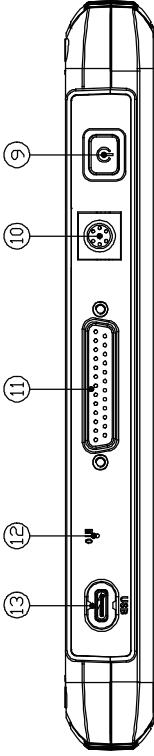
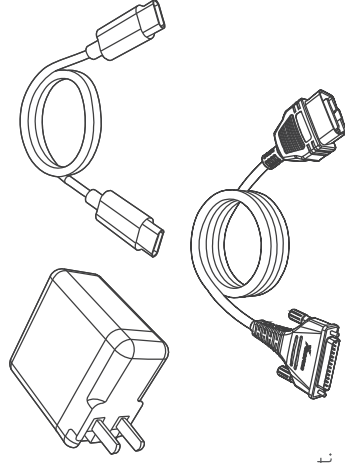


Fig. 4.2.3 KEY TOOL MIDI Side View

- ⑨ On / Off / Screen Lock
- ⑩ PS2 port for remote generation
- ⑪ DB25 port for OBD immo programming
- ⑫ Microphone
- ⑬ USB Type-C Port
-----Support charging adapters provided with the device and standard USB interfaces with a DC 5V input
-----Support input from TYPE-C devices (such as TPMS adapter, TYPE-C wired network adapters)

4.2.2 Accessories



① Charger & USB cable

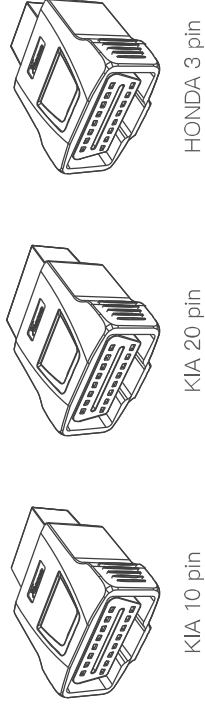
② OBD_DB25 cable

OBD_DB25 cable is used to connect the vehicle OBD port.

③ OBD connector

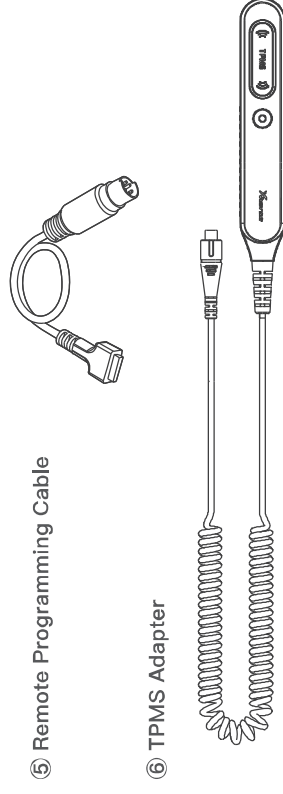
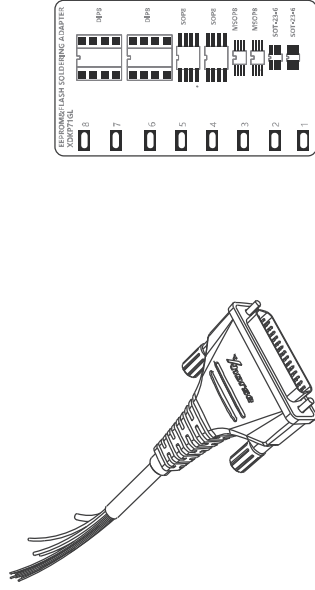
OBD connector is used to connect to the diagnostic port of non-OBD II vehicles.

Choose the appropriate adapter based on the vehicle model and interface.



④ Prog Adapter Cable

Prog adapter cable is used with KEY TOOL MIDI device to read and write 8-pin storage chips. When in use, an adapter board is required to solder the chip and cable.



4.3 Specifications

Name	Specifications
Operating system	Android 9.0
Processor	MT6765 4 x 2.3GHz + 4 x 1.8GHz cores
Screen	7.0inch
Memory	64GB eMMC+4GB LPDDR4X SDRAM
Camera	13.0MP
Input voltage (USB)	5V/9V
Input voltage (OBD)	12V/24V
Charging current	9V/2A
Standby time	>7*24h
Battery	6760mAh
Working temperature	-20~55℃
Storage temperature	-30~65℃
Wireless port	WIFI/Bluetooth
Sensor	Light sensor
Dimension	230x126x27mm

5 IMMO Programming and vehicle diagnostic operations

5.1 IMMO programming overview

KEY TOOL MIDI can be connected to the car via OBD connection cable to complete OBD immo programming and OBD diagnostic on most common car models. Currently, KEY TOOL MIDI supports lots of car brands such as Benz, BMW, Audi, VW, Toyota, Honda, Mazda, Ford, Cadillac, Geely, GWM, CHANGAN, BAOJUN, BYD and other models.

As shown in Fig. 5.1.1, after entering immo programming menu, users can select the car brands and car models according to the brand area. Currently, KEY TOOL MIDI supports immo programming for almost all the global stock models and OBD diagnostic function for some brands.



Fig. 5.1.1

5.2 IMMO programming

After selecting your car model, the supported OBD programming menu will show up on the screen (see Fig. 5.2.1). For the same model, there might be a variety of immo systems. If users can't identify which system it is, users can try them out one by one, or detect it automatically. The common OBD functions include smart key programming, write PIN code, write VIN code, exit immobilizer mode and read key data.



Fig. 5.2.1

Smart keys programming: This option allows users to program a new key to the vehicle via OBD.

Write PIN code: This option enables the writing of the PIN code to a new immobilizer system.

Write VIN: This option allows for the writing of the Vehicle Identification Number (VIN) to a new immobilizer system.

Exit the IMMO status: This option enables manual exit from the vehicle's immobilizer mode. If the system fails to exit immobilizer mode when OBD programming or key programming, this function can be used to manually exit the mode.

5.3 Automotive Diagnostic Function

The device supports OBD diagnostic functions for multiple vehicle brands. Entering the main interface and selecting the automotive diagnostics menu, users can view the brands currently supported by the device. Brands and models that are not yet supported will be gradually added through updates.

After selecting a specific vehicle model, the system allows automatic recognition of the vehicle's configuration. If automatic recognition fails, users can manually select the configuration. Within the diagnostic menu, users can access vehicle module information, data streams, and fault codes. See Fig. 5.3.1.

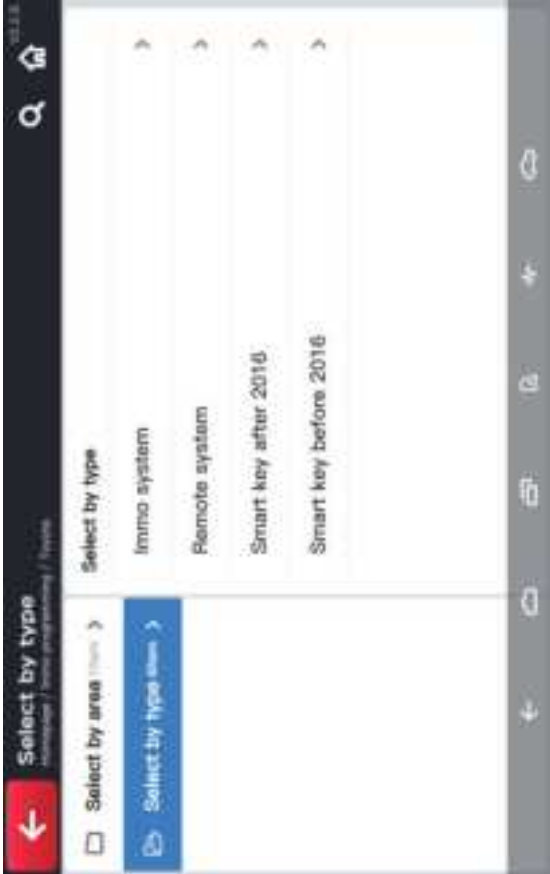


Fig. 5.3.1

5.4 Example: Honda Accord immo programming

Honda Accord, as a classic model, the immo systems and immo programming operations are different due to the different car model year. KEY TOOL MIDI supports immo programming of all models of Accord (see Fig. 5.4.1). Users can choose the smart key system and immobilizer system based on the immobilizer type of the original car.



Fig. 5.4.1

Note: Smart key system: Original car key belongs to keyless entry. Immobilizer system: Original car key belongs to flip key.

For example, for the 2023 10th generation Honda Accord, select the smart key system (2023-) option, follow the steps on the screen and get on the vehicle to complete the rest steps. See Fig. 5.4.2.



Fig. 5.4.2

6 Remote and Transponder

KEY TOOL MIDI supports a wide range of car key programming functions, including remote generation, remote cloning and smart key generation for common car models. By using Xhorse universal remotes, KEY TOOL MIDI allows users to generate specialized remotes for common vehicle models with ease.

6.1 Remote generation & clone

KEY TOOL MIDI supports remote (including smart key) generation, frequency detection for common models, as well as some remote cloning functions. More car models will be supported for free in the future.

In remote program, you can search the car brand based on the brand area on the left, or directly search by selecting all brands on the right. Besides, KEY TOOL MIDI also supports My favorite option for your convenience as shown in Fig. 6.1.1.



Fig. 6.1.1

Enter the Remote Clone menu, which includes the remote frequency detection and remote data cloning function. Place the key in the remote detection area, press a button on the remote, and check the frequency. See Fig. 6.1.2.



Fig. 6.1.2

Some new remotes can be directly cloned with the original remotes. KEY TOOL MIDI supports two common types of remote clone function and fixed code editing function. HCS/Fixed Code Clone is used to complete remote clone for HCS3XX rolling code, PT2262, LX918, HT6P20 and so on. Other types of remotes that are not fix code format will not show the clone data. See Fig. 6.1.3, the HCS301 remote data clone of BYD F3. Please see the example below.



Fig. 6.1.3

Special clone function is for remotes with non-fix format. Because the special clone function is compulsive, there is no guarantee that this function will work normally after cloning. The clone interface is shown in Fig. 6.1.4.



Fig. 6.1.4

Fix Code Edit function serves as a fix tool for some fixed code remotes. When the remote function is partially damaged, users can generate a fully functional remote by using the editing function as shown in Fig. 6.1.5.

7 Tire Pressure Monitoring System (TPMS) Functions

KEY TOOL MIDI supports TPMS sensor programming, including sensor generation, matching, cloning, and system diagnostics for various vehicle models. Using Xhorse universal TPMS sensors, users can program TPMS sensors for a wide range of common vehicles with KEY TOOL MIDI.

7.1 TPMS Sensor Generation

The device supports the generation of TPMS sensors for various common vehicle brands, with continuous updates to expand compatibility.

To generate a TPMS sensor, enter the TPMS menu. Users can search for the desired vehicle brand by selecting a region on the left, or directly search by selecting all brands on the right. As shown in Fig. 7.1.1.



Fig. 7.1.1

Alternatively, if the OE number of the original TPMS sensor is known, users can input it directly into the search function for more accurate results. For example, as shown in Fig. 7.1.2, the original TPMS sensor OE number for the BAIC Arcfox Alpha S (04/2021–12/2024, 433MHz) is E00128185, which can be used for direct menu search.



Fig. 7.1.2

7.2 TPMS Sensor Programming

After generating the corresponding sensor data, the device allows the programmed sensor to be matched to the vehicle, as shown in Fig. 7.2.1. Following the on-screen instructions on KEY TOOL MIDI, users can write the newly programmed TPMS sensor into the vehicle using OBD.

Before programming, the activation function can be used to activate all TPMS sensors in the vehicle. The diagnostic function reads the sensor IDs already programmed with the vehicle, while the programming function generates a completely new sensor for the selected vehicle model.



Fig. 7.2.1

7.3 TPMS Sensor Cloning

In addition to programming a new TPMS sensor, the device also supports direct cloning. If the TPMS sensor data format is compatible, users can simply clone the original sensor ID for immediate use. KEY TOOL MIDI supports three TPMS cloning methods, as shown in Fig. 7.3.1:

Activate copy: Activates the original sensor, reads its ID, and then program and clone it.

OBD copy: Diagnoses the original TPMS sensor ID from the vehicle via OBD, and then program and clone it.

Manual create: Finds the original sensor ID from the sensor housing and manually enters it into the creation field for cloning.

For auto create, they must be “learned” into the vehicle through the “Learn” function in order to become effective.



Fig. 7.3.1

8 Cloud Diagnosis Mode-C

KEY TOOL MIDI supports switching to cloud diagnosis mode-C device, allowing remote vehicle electronic module programming and fault diagnosis when used with mode-B/C products developed by Xhorse. See Fig. 8.1 for details.

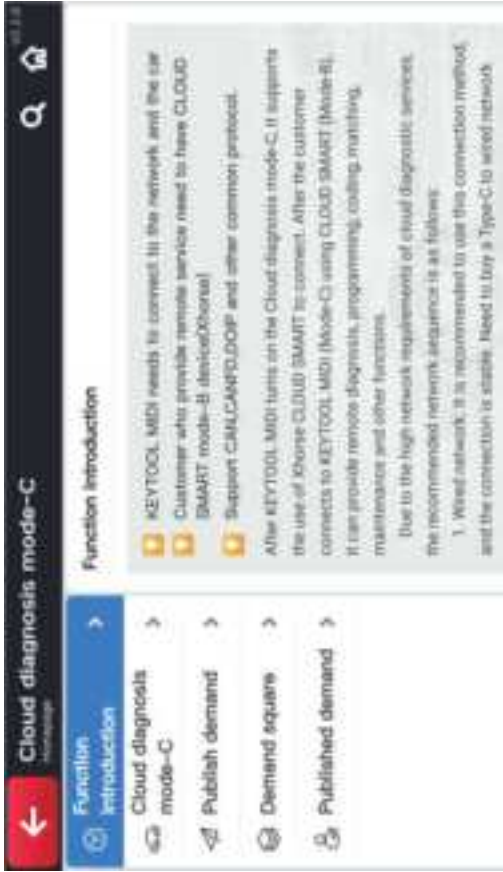


Fig. 8.1

8.1 Cloud Diagnosis Mode-C

Tap the corresponding function button to switch KEY TOOL MIDI to Mode-C. As shown in the interface below, the current mode-C ID will be displayed. Simply provide the ID to the remote mode-B, and the mode-B device will be able to connect seamlessly with KEY TOOL MIDI. This enables communication with the vehicle connected to the tablet for remote diagnosis or programming. See Fig. 8.1.1.



Fig. 8.1.1

8.2 Demand Publishing Process

Tap the “Publish demand” button to enter the request interface. Fill in and confirm contact info, select the required service type, and enter the VIN (Vehicle Identification Number), vehicle information, and fault description. Once submitted, the demand will be published on the platform, allowing mode-B service providers to accept and perform the remote service. Alternatively, demands can be assigned to a specific mode-B technician for direct handling. See Fig. 8.2.1 for details.



Fig. 8.2.1

9 Immo Data Tool

Due to the design limitations of certain immobilizer systems, some vehicles cannot undergo traditional immo programming and configuration via the OBD port. For such models, making or adding a start key requires the use of the Immo Data Tool function. This operation directly reads chip data from the vehicle's immobilizer module to make a start chip, enabling the vehicle to start without programming.

9.1 Supported vehicles

KEY TOOL MIDI supports the Immo Data Tool function for common vehicles, as well as select motorcycles. For a detailed list of supported brands, refer to Fig. 9.1.1.



Fig. 9.1.1

9.2 Example: Volkswagen Passat/Comfort ID48 Immo Data

Tool Operation

The Immo Data Tool operation requires reading data from the vehicle's body control module. First, use the tablet's Prog function to read the comfort module data, then proceed with the following steps:

Select VW/Passat, Comfort ID48-95320 from the menu (Fig. 9.2.1).

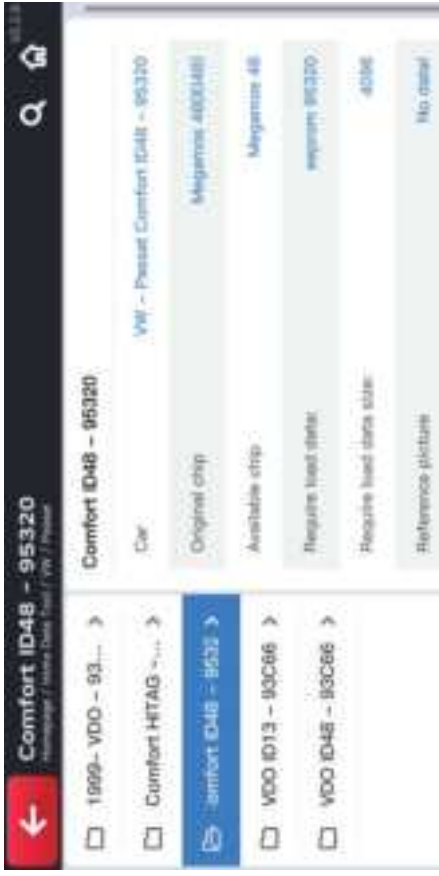


Fig. 9.2.1

Load the original comfort module data file and generate dealer keys or vehicle keys (Fig. 9.2.2).



Fig. 9.2.2

Perform ignition testing. It should be noted that for some models, the data must be rewritten to the storage chip using the Prog before installation. (See chapter 4).

9.3 File Management

KEY TOOL MIDI features a built-in file management system. During Immo Data Tool operations, you can select local files or cloud server data (Fig. 9.3.1).



Local File: Data files read by the tablet's programmer or downloaded and stored locally.
My Data: Cloud server files uploaded via a computer.

- How to Upload Files to Cloud Server:
Enter the URL <http://i.xhorse.com/> in a browser.
- Click Scan to Log In and scan the QR code displayed on the webpage (Fig. 9.3.2).



Fig. 9.3.2
Upload or manage files via the computer interface.

10 Key Cutting Expansion Functions

KEY TOOL MIDI can be expanded to control Xhorse key cutting machines (e.g., Condor, Dolphin, and Panda series) as a display and operation interface (Fig. 10.1).



Fig. 10.1

10.1 Key Cutting Machine Connection and Switching

Tap Switch Device and select the target key cutting machine model (Fig. 10.1.1). Supported models include: XC-MINI (Condor KM03), MINI-PLUS (Condor Plus KM05), MINI-PLUS2 (Condor Plus II), DOLPHIN (Dolphin KM06), DOLPHIN II (Dolphin KM11), PANDA, etc.



Fig. 10.1.1

Tap Search and select the CNC machine's serial number.

10.2 Key Cutting Machine Functional Operations

Vehicle Database: Displays all vehicle models and key types supported by the connected key cutting machine. Select by brand, model, and year.

Example: Select by BMW brand to the model selection page (Fig. 10.2.1).



Fig. 10.2.1

Cut by Bitting: Displays common automotive key bitting codes (Fig. 10.2.2).

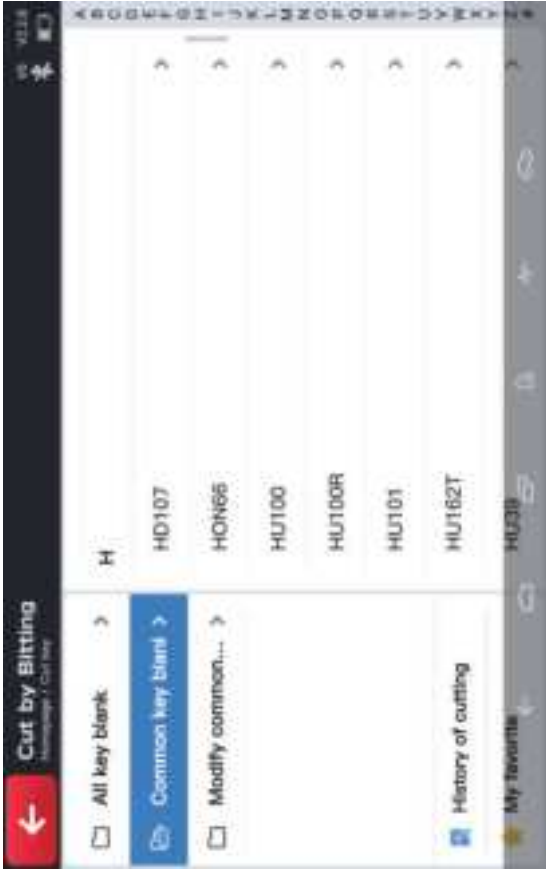


Fig. 10.2.2

Universal Key Duplication: Copies 6 common key bitting types (used when no specific vehicle data is available) (Fig. 10.2.3).



Fig. 10.2.3

All Key Lost: Queries key bitting codes using partial information (e.g., key barcode, lock cylinder code) (Fig. 10.2.4).



Fig. 10.2.4

Find Bitting: For some vehicle models, the ignition lock has a higher number of tooth positions compared to the door lock. After obtaining the key code data for the door lock, the “Finding Bitting” function can be used to conveniently determine all the key code data for the ignition lock.

Customize Key Data: Adds unsupported key bitting codes or downloads codes shared by other users.

Machine Parameters: Configures the key cutting machine initialization and calibration (Fig. 10.2.5).



Fig. 10.2.5

11 Special Functions

KEY TOOL MIDI is a comprehensive key programming tool designed for locksmiths, offering a wide range of practical functions. These include remote renew, motorcycle remote renew, car key charging, ignition switch coil signal detection when all-keys-lost, and more.

11.1 Remote Renew

After a car key is programmed to a vehicle, it becomes locked and cannot be reused. This function allows you to unlock the key, supporting various models from multiple brands (Fig. 11.1.1). During operation, you will need to use a renew adapter and a renew cable, ensuring correct wiring as illustrated.



Fig. 11.1.1

11.2 Ignition Switch Coil Signal Detection

When all car keys are lost, you can use KEY TOOL MIDI to detect the chip type of the car's ignition coil and whether the coil is functioning correctly. Position the tablet's antenna near the key's ignition coil, repeatedly switch the coil on and off, and information will be displayed on the tablet's screen (Fig. 11.2.1).



Fig. 11.2.1

11.3 VDI Remote Function

Customizes Xhorse universal smart keys (e.g., button layout, frequency) to adapt to different scenarios and vehicle models. Read the key data, adjust parameters, and rewrite (Fig. 11.3.1).



Fig. 11.3.1

12 Settings

General Setting page can be entered through the shortcut button of set as shown in

Fig. 12.1.



Fig. 12.1

12.1 Select

Connects to key cutting machines via Bluetooth and you can select the serial number of the machine:

1. Tap Search.
2. Select the key cutting machine's serial number.

12.2 WLAN Connection

Connects to Wi-Fi networks:

1. Tap Scan.
2. Select a network and enter the password.

12.3 Language

Sets display language (availability varies by region).

12.4 Prog Setting

Enables/disables automatic data verification during read/write operations.

12.5 APP Setting

Configures APP preferences (e.g., language prompts).

12.6 Battery initialization

Before replacing the battery of the device, you need to initialize the new battery by scanning the QR code on the battery.

12.7 Settings

Adjusts volume, screen brightness, sleep time, date. Also supports clear cache, and system restore. (Fig.12.1).

12.8 Service/Privacy Policy

Displays terms of service. Acceptance is required for device use.

12.9 About Us

Shows manufacturer details and APP version.



13 Warranty and After-Sales Information

KEY TOOL MIDI has a one-year warranty, starting from the date on the transaction receipt. If there is no transaction receipt or the receipt is lost, the warranty will be based on the manufacturer's recorded factory shipment date.

KEY TOOL MIDI has a one-year warranty, starting from the date on the transaction receipt. If there is no transaction receipt or the receipt is lost, the warranty will be based on the manufacturer's recorded factory shipment date.

The following situations are not covered by the free warranty:

- Machine failure caused by use not in accordance with the instructions.
 - Machine damage caused by self-repair or modification.
 - Machine failure caused by drops, collisions, or improper voltage.
 - Machine damage caused by force majeure.
 - Machine failure or damage caused by prolonged use in harsh environments or on vehicles/ships.
 - Damage caused by normal daily use, such as scratches, stains, or wear and tear on the outer casing.
- For after-sales maintenance and technical support, please contact your dealer or scan the QR code on the back of the manual to download the official Xhorse APP and consult with online customer service.

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KEY TOOL MIDI

FCC statements:

§ 15.19 Labelling requirements.

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.

§ 15.21 Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.105 Information to the user.

Note: 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 RF exposure requirements for general population exposure conditions. SAR test distance is 0 cm.

EU DECLARATION OF CONFORMITY:

Hereby, Shenzhen Xhorse Electronics Co., Ltd. declare that this product with model XDKMD is in compliance with Directive 2014/53/EU and 2011/65/EU.

Frequency Band(s)

This device operates with the following frequency bands and maximum frequency power.

Note: The product is compliant with these power limits required by the European Union. Frequency bands supported by the product vary by model.

2.4G&5G WIFI: <20 dBm

BT/BLE: <13 dBm

RFID (433.92 MHz) Max. ERP is -17.61 dBm

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK