THINKCAR

LEADING TECH IN DIAGNOSTICS

THINKTOOL Expert 391

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THINKTOOL 391 is an intelligent diagnostic device developed by THINKAR in 2024.

The whole machine design utilizes the new “THINKCAR Gold” industrial design style, which brings a new appearance and visual experience. The self-developed operating system, TCOS, features a new UI design concept with a stronger sense of interface hierarchy and higher fluency. THINKTOOL 391 is equipped with the industry's most advanced hardware configurations, including MT8766 high-performance processor, 10.1-inch high-definition IPS screen, 4GB of RAM, 128GB of storage capacity, and a 13-megapixel rear-facing camera. . The diagnostic connector uses THINKLINK Lite, with diagnostic functions covering mainstream passenger cars, new energy vehicles, domestic TC+ models, etc., and supporting mainstream protocols such as DOIP, CAN FD, J2534, and so on.

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· TCOS System

-- The first TCOS system is deeply customized for the automotive AI diagnostic model. The menu of commonly used diagnostic functions is simpler to operate; the new UI design concept makes the sense of hierarchy more prominent. The first release of the theme switching function supports switching between DARK MODE and LIGHT MODE.

· High-performance hardware

-- Equipped with 8-core MT8766 high-performance processor, 4GB+128GB memory, 13 million rear camera + flash. Configuration of 10.1-inch 1280 * 800 resolution IPS screen, support dual-band dual WiFi communication, greatly improving the efficiency of wireless communication.

· Extension

-- Enable more module expansion functions, such as: battery testing service, endoscope service, oscilloscope service, etc. Support with THINKCAR wireless tire pressure tool, PROG, key programmer, four-wheel aligner, ADAS, etc. to realize high-end function expansion.

· VCI -- THINKLINK Lite

-- Equpped with THINKLINK Lite, which supports CAN 2.0/CAN FD/DOIP/J2534 and other mainstream diagnostic protocols. Equipped with 41 items of maintenance, passenger car and domestic TC+ software as standard. Support the purchase of new energy expansion package to open the battery pack diagnosis, 6 new energy maintenance and more new energy diagnostic software.

· Remote Diagnosis

-- THINKCAR remote diagnosis provides a safe, stable and efficient cloud data channel. Customers can seek help from cloud technicians for diagnosis, programming, anti-theft matching, ADAS calibration, troubleshooting, etc. through audio and video remote functions.

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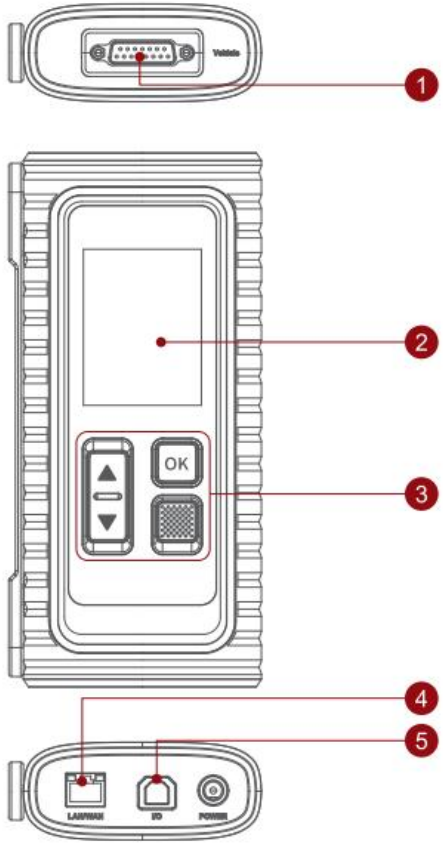
VCI

1	VCI	DB-15 diagnostic port, connected to the vehicle via a diagnostic cable.
2	Screen	Displays the working status of the diagnostic
3	Power button	Support up, down, confirm and return operation.
4	Network port	Supports to provide network for VCI through the network cable.
5	I/O data port	Supports connecting to the diagnostic device using a USB adapter cable.

OS	LINIX	**Working voltage**	9-18V
Screen	2.8 inch	**Resolution**	240*320
Storage	256M	**Storage**	8G
Working temperature	-10℃- 50℃	**Storage temperature**	-20℃- 60℃



THEME SWITCHING

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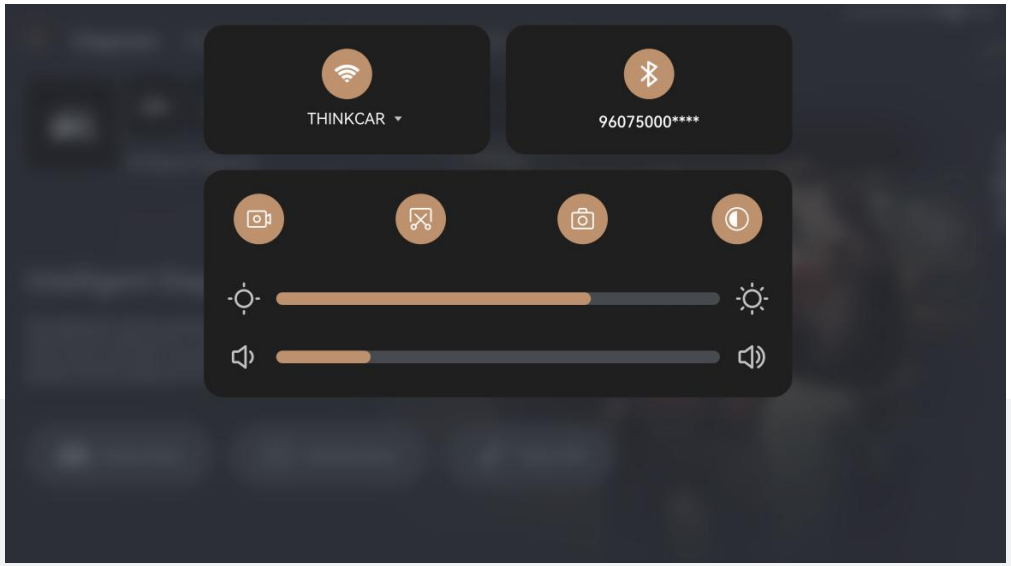

· **THINKTOOL 399 & 394 & 391 supports the function of switching the theme of the device to [Indoor Mode] and [Outdoor Mode]. Supports the operator to adjust the interface theme color according to the lighting conditions of different scene**

-- Operate by clicking the shortcut button through the drop-down pop-up window of the device.

-- Switch the theme through [Settings] → [System Settings] → [Display Settings].

EV DIAGNOSTIC

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· **EV Battery pack diagnostic**

-- For new energy vehicle battery packs, battery modules for professional diagnostic testing, and provide multi-mode diagnostics (OBD interface diagnostics, fast charging port diagnostics, battery pack low voltage interface diagnostics). It can also analyze the voltage, temperature, differential pressure and other important data of the battery cells in real time to help users to accurately locate the battery faults and provide guidelines for battery diagnosis, testing and maintenance.

· **EV Battery pack diagnostic**

-- THINKTOOL 399& 394 comes standard with battery pack diagnostic function, 6 new energy maintenance software, new energy EV models with the highest software. Hardware non-standard connectors are not standard, please purchase separately if needed.

-- THINKTOOL 391 supports the activation of the battery pack diagnostic function and 6 new energy maintenance software by purchasing the new energy expansion pack. The software for new energy EV models is supported up to the maximum except for new energy commercial vehicles.

REMOTE DIAGNOSTIC

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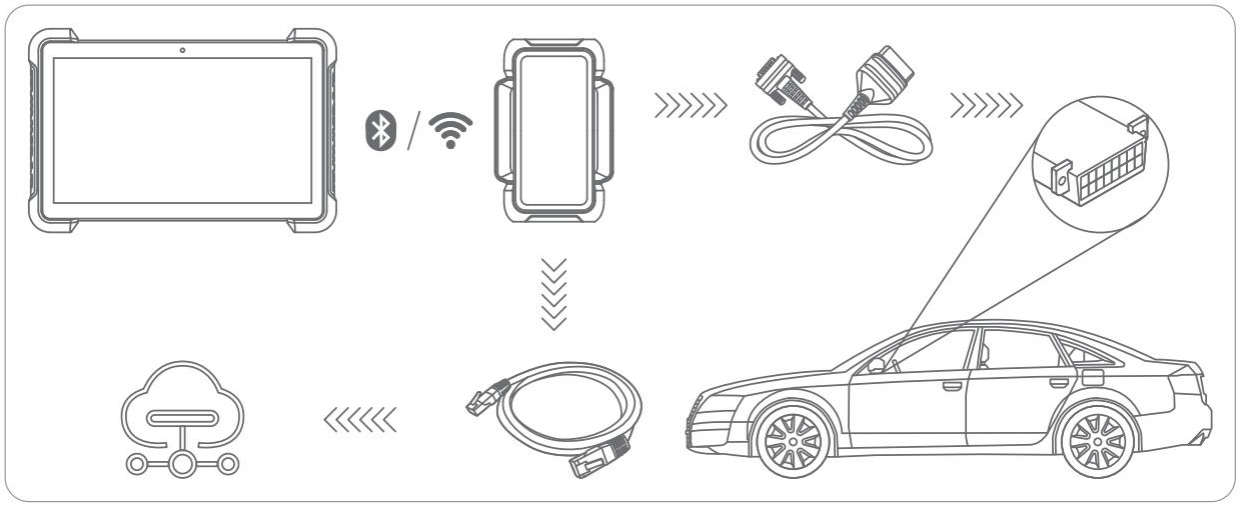
· **Remote diagnostic**

-- THINKAR remote diagnostic system provides remote diagnosis, remote programming, remote anti-theft configuration, remote ADAS calibration, remote consultation and reply to the difficult questions and other functions.

-- The platform is based on a safe, stable and efficient cloud data channel, which can quickly solve automotive maintenance problems that cannot be completed locally. At present, it supports CAN, CAN FD, DOIP, J2534 and other protocols, covering many mainstream car series such as Mercedes-Benz, BMW, Volkswagen Audi and General Motors.



REMOTE DIAGNOSTIC PROCESS

1	Connect the vehicle	Connect the device with the vehicle
2	Release the order	Read the vehicle information (manual selection, diagnostic report, sweep) The above three ways can get the vehicle information
3	Confirm the demands	Provide the service demand after the expert technician took the order, via the message or the video voice.
4	Start remote diagnostic	To ensure that both sides of the equipment connection is completed, start remote diagnostic services. In the process of remote connection, please turn on the vehicle ignition switch, keep the wired network smooth.
5	End the process	Complete the order and evaluation of the expert technician to complete the order, provide your valuable suggestions and comments.

COMPARISON

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	399	Max	394	Master X2	391	Expert 195
VCI	**THINKLINK PRO**	THINKLINK	**THINKLINK PRO**	THINKLINK	**THINKLINK LITE**	THINKLINK LITE
CPU	**Genio 700**	MT8788	MT8788	MT8766	MT8766	MT8766
OS	**TCOS(Android 13)**	Android 9	**c**	Android 10	**TCOS(Android 10)**	Android 10
Display	**14.0 Inchs**	13.3 Inchs	12.0 Inchs	10.1 Inchs	10.1 Inchs	9 Inchs
Resolution	**2560*1600**	1920*1080	1920*1080	1280*800	1280*800	1280*800
RAM + ROM	**8+256G**	**8+256G**	**8+256G**	4+128G	4+128G	4+128G
Battery	**22400mAh/3.8V**	18600mAh/3.8V	12600mAh/3.8V	12600mAh/3.8V	12600mAh/3.8V	12600mAh/3.8V
Front camera	**800Mp**	NO	**500Mp**	NO	NO	NO
Rear camera	**2000Mp**	1300Mp	1300Mp	1300Mp	1300Mp	800Mp
LED light	**support**	**support**	NO	**support**	**support**	NO
Module extension	NO	NO	NO	NO	NO	**support**
Inner TPMS	NO	NO	NO	**support**	NO	NO
Charging Stand	**support**	NO	NO	NO	NO	NO
Charging	**15V/3A**	**12V/4A**	5V/2.5A	5V/2.5A	5V/2.5A	5V/2.5A

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Video remote diagnosis	support	support	support	support	support	support
Online programming	support	support	support	support	support	not support
maintenance	41	41	41	41	41	35
EV Diagnostic Battery Pack	**Software standard Hardware optional**	optional	optional	optional	optional	not support
Heavy Duty	**Software standard Hardware optional**	optional	optional	optional	optional	not support
CAN FD protocol	support	support	support	support	support	support
DOIP protocol	support	support	support	support	support	support
J2534 protocol	support	support	support	support	support	support
WiFi diagnostics	support	support	support	support	support	support
TPMS	TPMS TOOL-BT	TPMS TOOL-BT	TPMS TOOL-BT	Inner TPMS	TPMS TOOL-BT	TPMS TOOL-BT TPMS Module
ADAS	support	support	support	support	support	support
PROG	support	support	support	support	support	support
Module function expansion	By USB	By USB	By USB	By USB (Except Printer)	By USB	By Pin&USB (Except Worklight)
Split screen	**support**	not support	**support**	not support	**not support**	not support
VCI Display	**support**	not support	**support**	not support	**not support**	not support
AI	**support**	not support	**support**	not support	**not support**	not support
Dual Diagnosis	**support**	not support	not support	not support	not support	not support

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Thanks!

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