THINKCAR

LEADING TECH IN DIAGNOSTICS

THINKTOOL Expert 399

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THINKTOOL 399 Series is a high-end comprehensive diagnostic device independently developed by THINKCAR in 2024. It adopts a new ID design. The host is lightweight (the thinnest position is only 8.15mm), and the middle frame is made of titanium alloy material. The host reaches IP65 level and is suitable for various complex automotive maintenance environments.

It has the most advanced hardware configuration in the current industry. The host is equipped with Genio 700 high-performance processor, 14 inch 2.5K high-definition IPS screen,8GB RAM & 256GB ROM, 8M front & 20M rear camera. VCI is equipped with a dual core 1.3GHz Renesas car level processor, 1GB RAM & 8GB ROM, with 6.54-inch and 720*1600 resolution high-definition IPS screen.

TCOS system deeply customized based on AI diagnostic models. Supports functions such as split screen, expandable intelligent modules, Dual Diagnosis, and VCI Display. It adopts a new UI design concept, with a stronger sense of interface hierarchy and higher smoothness.

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· TCOS System

-- The first TCOS system is deeply customized for the automotive AI diagnostic model. It supports split-screen function and multiple applications running at the same time. It supports multi-device intelligent connection to achieve Dual Diagnosis, VCI Display, and functional module expansion. The common function menu is flattened for simpler operation. The new UI design concept makes the interface more layered. The first release of the theme switching function supports switching between DARK MODE and LIGHT MODE.

· New ID design

-- The new ID design adopts new materials and new processes, bringing rich visual experience. The middle frame design is suitable for titanium alloy, the body is strong, thin (the thinnest thickness is only 8.15mm), corrosion-resistant, and suitable for various complex auto repair environments.

· VCI Display

-- The key data of VCI is synchronized to the host in real time. It is convenient to check the VCI operation status during the diagnosis process.

· New VCI -- THINKLINK PRO

-- quipped with a 6.54-inch 720*1600 resolution high-brightness touch screen and 1GB RAM & 8GB ROM. Supports mainstream diagnostic protocols such as CAN 2.0/CAN FD/DOIP/J2534, covering passenger cars, commercial vehicles and new energy vehicles.

· Dual Diagnosis

-- Supports binding a second VCI to diagnose two vehicles at the same time, improving the work efficiency of terminal scenarios.

· 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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· High-performance hardware platform

-- Equipped with an 8-core Genio 700 high-performance processor, 8GB RAM & 256GB ROM, 8M front & 20M rear camera, it runs smoothly. Equipped with a 14-inch 2.5KIPS screen, rich and bright color display, strong style light and dark contrast. Supports dual WiFi communication (WiFi 6 * 1 & WiFi 5 * 1), greatly improving wireless communication efficiency.

· Long battery life

-- Equipped with a 22,400mAh large-capacity polymer lithium battery, the standby time is up to 30 days. With 45W fast charging function, it only takes 2 hours to fully charge. The charging stand is standard, and the host is placed at a 55.62° golden ratio tilt angle, providing the best viewing angle and operating experience, and charging while using, with unlimited battery life.

· Vehicle Type Coverage

-- Powerful diagnostic software support, covering more than 98% of vehicle types on the market, supporting 41 maintenance software. Passenger vehicle software, new energy vehicle software, and commercial vehicle software are standard.

· Expandable detection module

-- THINKCAR's functional modules can be expanded through specially designed high-speed peripheral interfaces. Such as: Battery Detection Service, Video Scope Service, Report Printing Service, Scope Box Service, etc.

· THINKCAR AI Diagnostic Model

-- The original THINKCAR AI diagnostic model can understand user intent, provide customers with easier-to-use and smarter diagnostic experience in common diagnostic functions such as diagnostic navigation, intelligent reporting, FQA, DTC, etc., and improve work efficiency in diagnostic scenarios.

· Professional expansion tools

-- Support the expansion of ADAS calibration services, complete TPMS services, and key programming services.

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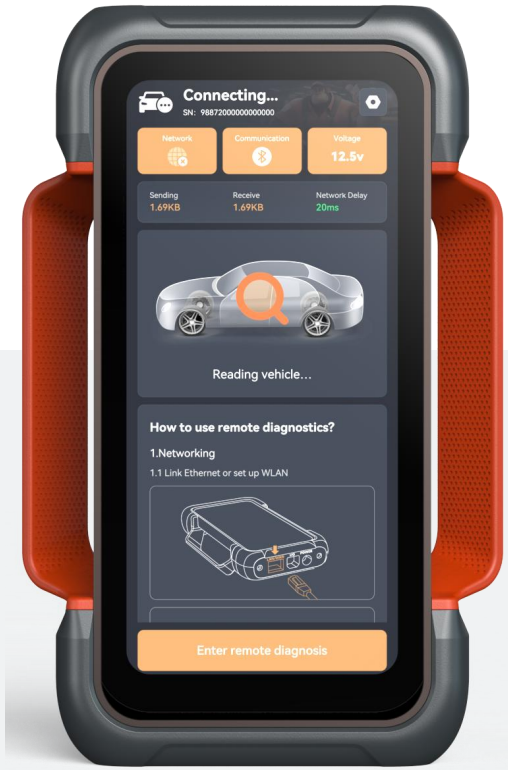
· New ID design

-- The new ID design uses new materials and new technology. The design is compact, and the size of the whole machine is 188*121*31mm. Compared with THINKLINK, it is more compact, solid, and thinner (the thinnest part is only 14.3mm), suitable for single-handed operation.



· New interactive experience

-- Equipped with a 6.54-inch 720*1600 resolution, high resolution, wide viewing angle, bright colors and high brightness IPS touch screen; the new UI design concept has a more prominent sense of layering, bringing an immersive visual experience.

· High-performance hardware platform

-- Equipped with dual-core 1.3GHz Renesas automotive-grade chips, 1GB + 8GB RAM, and high-real-time LINUX system, diagnosis is safer, more stable, and faster.

· High-speed communication

-- Supports dual-band WiFi and Gigabit Ethernet communications, greatly improving the stability and efficiency of local and remote diagnosis.

· Protocol coverage

-- Supports mainstream diagnostic protocols such as CAN 2.0/CAN FD/DOIP/J2534, covering passenger cars, commercial vehicles and new energy vehicles.

· VCI ultra-fast connection

-- After the VCI is connected to the vehicle, it communicates with the host autonomously and enters the diagnosis extremely quickly without waiting.

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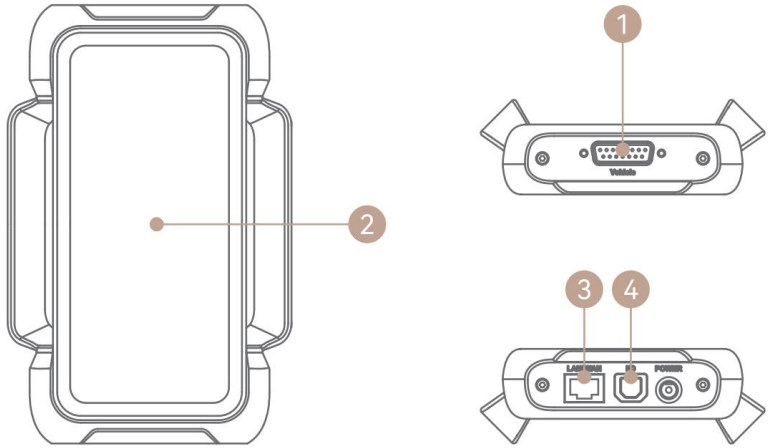
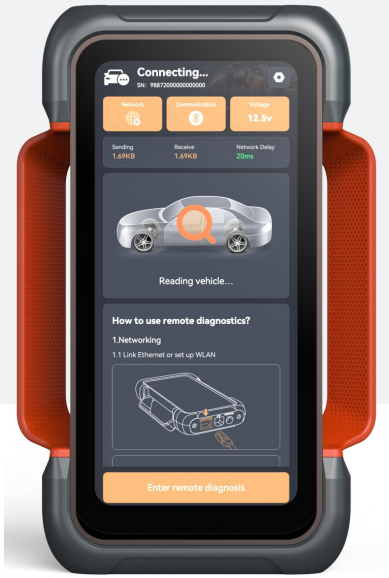
THINKLINK PRO VCI

1	Diagnostic port	Communicate with the vehicle through the Diagnostic Connection Cable.
2	Screen	6.54 inch and 720*1600 resolution screen.
3	Ethernet port	Provide network to devices through Ethernet cables.
4	I/O data Port	Type B USB port is designed for building stable communication when performing ECU Programming or IMMO Key Programming.





THINKLINK PRO

Operating System	LINUX
Screen	6.54 inches
Size	189x122x39mm
Memory	1G
Working Environment	14°F~122°F(-10°C~50°C)
Working Voltage	9-36V
Resolution	720*1600
Weight	0.383 kg
Storage	8G
Storage Environment	-4°F~140°F(-20°C~60°C)

REAL TIME DISPLAY

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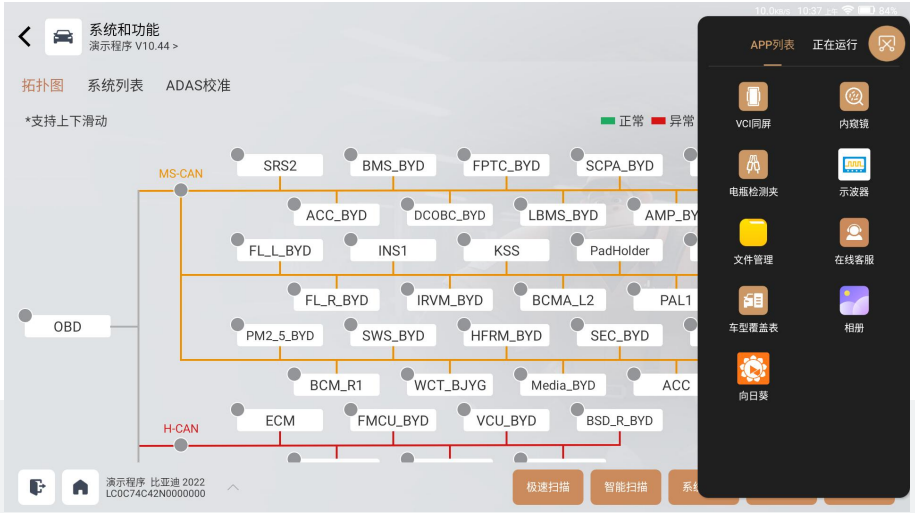

· **VCI Real time display on device**

-- Use the [Quick Launch] bookmark at the top right of the interface to hit the application list.

-- Select the [VCI] real time display function to view the key data of the connector interface in a split screen.

THEME SWITCHING

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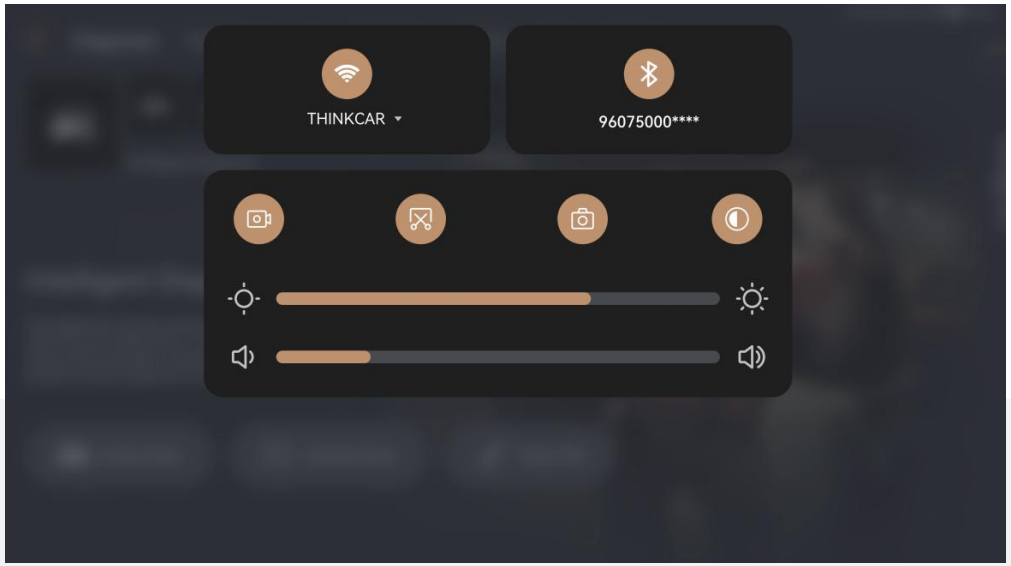

· **THINKTOOL 399 & 394 & 391 supports the function of switching the theme of the device to [Indoor Mode] and [Outdoor Mode]. Supports the operator to adjust the interface theme color according to the lighting conditions of different scene**

-- 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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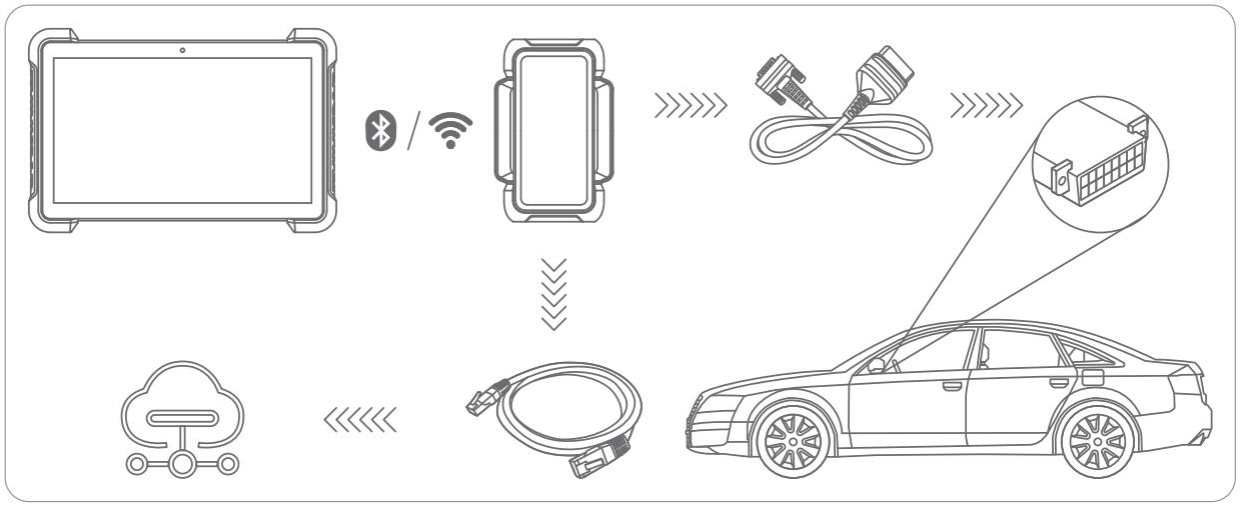
· **Remote diagnostic**

-- 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.

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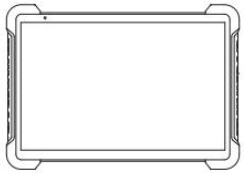

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PACKING LIST

THINKTOOL 399 1 PC		THINKLINK PRO VCI 1 PC	
Charging Stand 1 PC		Mini-HDMI to HDMI 1 PC	
Clipper Cable (LCDSS) 1 PC		Cigarette Lighter Cord 1 PC	
Fuse (AC250V/5A, φ5*20mm) 4 PCS		Fuse (AC250V/5A, φ6*30mm) 2 PCS	
BMW-20 1 PC		BZ-38 1 PC	
TA-22 1 PC		CR-6 1 PC	
TA-17 1 PC		HA-3 1 PC	

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G/A-12 1 PC		M/H-12+16 1 PC	
FT-3 1 PC		NN-14+16 1 PC	
OBD-9 (HD) 1 PC		OBD-6 (HD) 1 PC	
CAT-9 (HD) 1 PC		OBD Adapter 1 PC	
OBD Diagnostic Cable 1 PC		Programming Cable 1 PC	
3-in-1 Charger (Matched with U.S., U.K. and European plugs) 1 PC		Charging Cable 1 PC	
Type A USB to Type C 1 PC		Ethernet Cable 1 PC	
Quick Start Manual		Packing List 1 PC	

Item	Host Device -- THINKTOOL 399 *1 VCI -- THINKLINK PRO *1
For charging	Charging Stand *1, 45w Charger(3-in-1) *1, Charging Cable(Type C to Type C) *1
Connection cable	OBD Diagnostic *1, OBD Adapter *1 Programming Cable *1, Ethernet Cable *1 Type A USB to Type C *1, HDMI-mini to HDMI *1
Package of OBDI Connector	Clipper Cable *1, Cigarette Lighter Cord *1 Fuse φ5 *4, Fuse φ6 *2, BWM-20 *1, BZ-38 *1, TA-22 *1, CR-6 *1, TA-17 *1, HA-3 *1, G/A-12*1, M/H-12+16 *1, FT-3 *1, NN-14+16 *1
HD Connector	OBD-9 *1, OBD-6 *1, CAT-9 *1
Paper packaging	Quick Start Manual *1, Packing List *1

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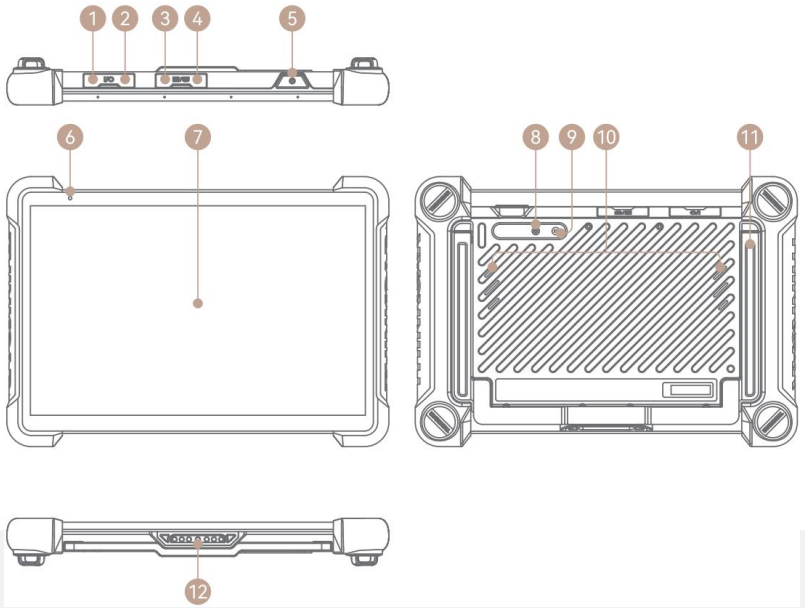
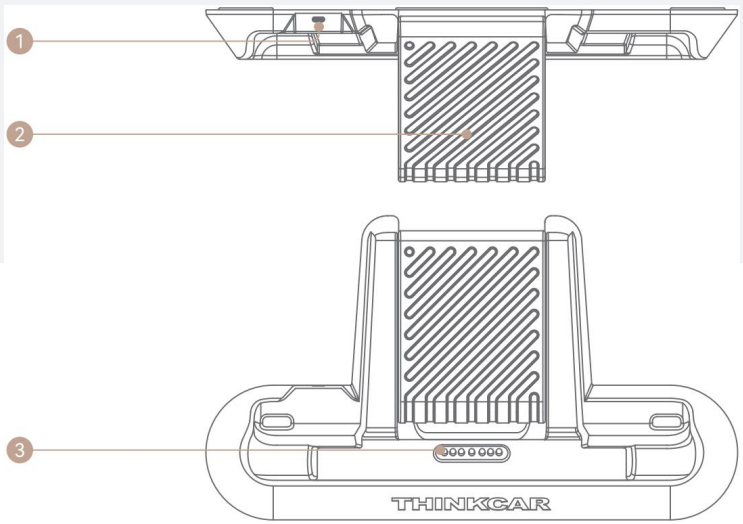
Host device

1	USB Port	Communicate with other devices through the USB-A port.
2	Type-C Port	Can be used to charge 45W electronic devices.
3	Ethernet port	Provide network to devices through Ethernet cables.
4	HDMI-Mini Port	For screen projection.
5	Power Button	· Short press to turn off or wake up the screen. · Long press for 3 seconds to turn on/off the device, and for 8 seconds to force to restart the device.
6	Front camera	8 million pixel front camera.
7	Screen	14.0 inch and 2.5K resolution screen.
8	Rear camera	20 million pixel rear camera.
9	LED light	Used for illumination and supplementary lighting.
10	Loudspeaker	Convert an audio signal into a corresponding sound.
11	Adjustable Stand	Able to keep the device standing on the desk, or hang the device on thesteering wheel.
12	Charging Points	Connect to Charging Stand for charging the device.



Charging dock

1	Type-C Port	Can be used to charge 45W electronic devices.
2	Support plate	Open the support plate and place the host on the Charging Stand.
3	Charging Points	Connect to Charging Stand for charging the device.



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THINKLINK PRO

Operating System	LINUX
Screen	6.54 inches
Size	189x122x39mm
Memory	1G
Working Environment	14°F~122°F(-10°C~50°C)
Working Voltage	9-36V
Resolution	720*1600
Weight	0.383 kg
Storage	8G
Storage Environment	-4°F~140°F(-20°C~60°C)

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Operating System	TCOS
Screen	14.0 inches
Size	344*243*42mm
Memory	8G
Wi-Fi	WiFi 6*1& WiFi 5*1
Battery	22.400mAh/3.8V
Working Environment	14°F~122°F(-10°C~50°C)
Processor	Genio 700
Resolution	2560*1600
Weight	2.196 kg
Storage	256G
Bluetooth	Bluetooth 5.1
Charging	15V/3A(PD 45W)
Storage Environment	-4°F~140°F(-20°C~60°C)

SPLIT SCREEN

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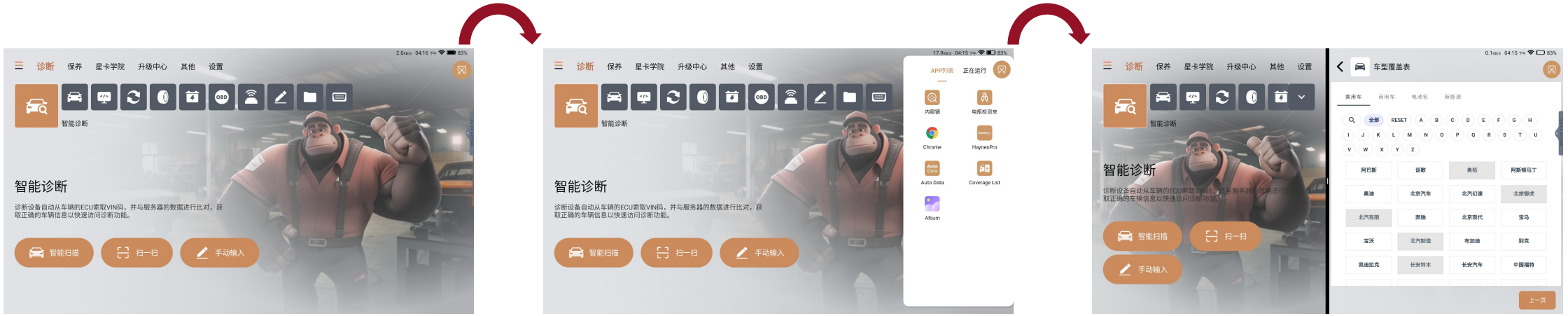
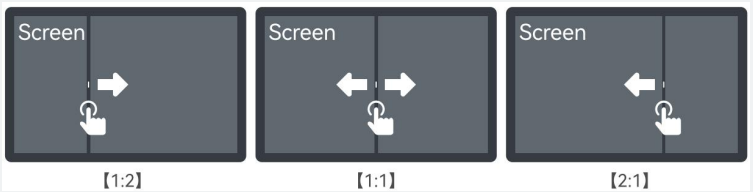


· **THINKTOOL 399& 394 support split-screen support for opening other applications via the second screen.**

-- Through the [Quick Launch] bookmark at the top right of the interface, you can open the list of apps that support split-screen.

-- Select the app to open the second screen on the right side in the form of split-screen.

-- Drag the junction of the first and the second screen left and right to adjust the ratio of the screen, and it supports the three kinds of display ratios, namely, [1:2], [1:1], [2:1]



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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	399	Max	394	X-431PAD IX	MaxiSys Ultra lite	MaxiSys MS919
VCI	THINKLINK PRO	THINKLINK	THINKLINK PRO	SmartLink C v3.0	MaxiFlash Xlink	MaxiFlash VCMI
CPU	Genio 700	MT8788	MT8788	MT8788	Exynos8895	Exynos8895V
OS	TCOS(Android 13)	Android 9	TCOS(Android 10)	Android 13	Android 7	Android 7.0 / 10.0
Display	14.0 inch	13.3 inch	12.0 Inchs	13.6 inch	12.7 inch	9.7 inch
Resolution	2560*1600	1920*1080	1920*1080	2560*1600	2732*2048	1536 x 2048
RAM + ROM	8+256G	8+256G	8+256G	12+512G	4+256G	4+128G
Battery	22400mAh/3.8V	18600mAh/3.8V	12600mAh/3.8V	18720mAh/3.8V	18000mAh/3.8V	18000mAh/3.8V
Front camera	800Mp	NO	500Mp	800Mp	500Mp	1600Mp
Rear camera	2000Mp	1300Mp	1300Mp	2000Mp	1600Mp	1600Mp
LED light	support	support	NO	support	support	support
Module extension	NO	NO	NO	NO	NO	NO
Inner TPMS	NO	NO	NO	NO	NO	NO
Charging Stand	support	NO	NO	NO	support	NO
Charging	15V/3A	12V/4A	5V/2.5A	12V/4A	12V/3A	12V/3A

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Video remote diagnosis	support	support	support	support	support	support
Online programming	support	support	support	support	support	support
maintenance	41	41	41	41	40	38
EV Diagnostic Battery Pack	Software standard Hardware optional	optional	optional	optional	optional	standard
Heavy Duty	Software standard Hardware optional	optional	optional	optional	optional	standard
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	TPMS TOOL	TPMS TOOL	TPMS TOOL
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	By USB	By USB
Split screen	support	not support	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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