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thinkcar TKT02

THINKCAR ThinkTool Mini OBD2 Scanner User Manual

Model: TKT02

1. Product Overview

The THINKCAR ThinkTool Mini is a comprehensive OBD2 diagnostic scanner designed for automotive professionals and enthusiasts. It offers full system diagnostics, a wide range of reset services, and advanced features for efficient vehicle maintenance and repair.

Image 1.1: The THINKCAR ThinkTool Mini diagnostic tool, its VCI dongle, and protective carrying case. The screen displays the main menu with options for diagnosis, maintenance, and other functions.

Key Features:

- All System Diagnostics
- 28+ Reset Services
- Lifetime Free Software Updates
- IMMO Key Programming
- FCA AutoAuth Access
- Wireless Bluetooth VCI Dongle
- 6-inch HD Touchscreen
- Android 10 Operating System

2. Setup and Initial Use

2.1 Unpacking and Charging

Carefully unpack all components. Ensure the ThinkTool Mini device is fully charged before first use. Connect the provided charging cable to the device and a suitable power adapter.

2.2 Powering On and Software Update

1. Press and hold the power button to turn on the device.
2. Follow the on-screen prompts to complete the initial setup, including Wi-Fi connection.
3. It is recommended to perform a software update immediately after initial setup to ensure you have the latest features and vehicle coverage. Navigate to the 'Update' section on the main menu and select 'One-touch Update'.

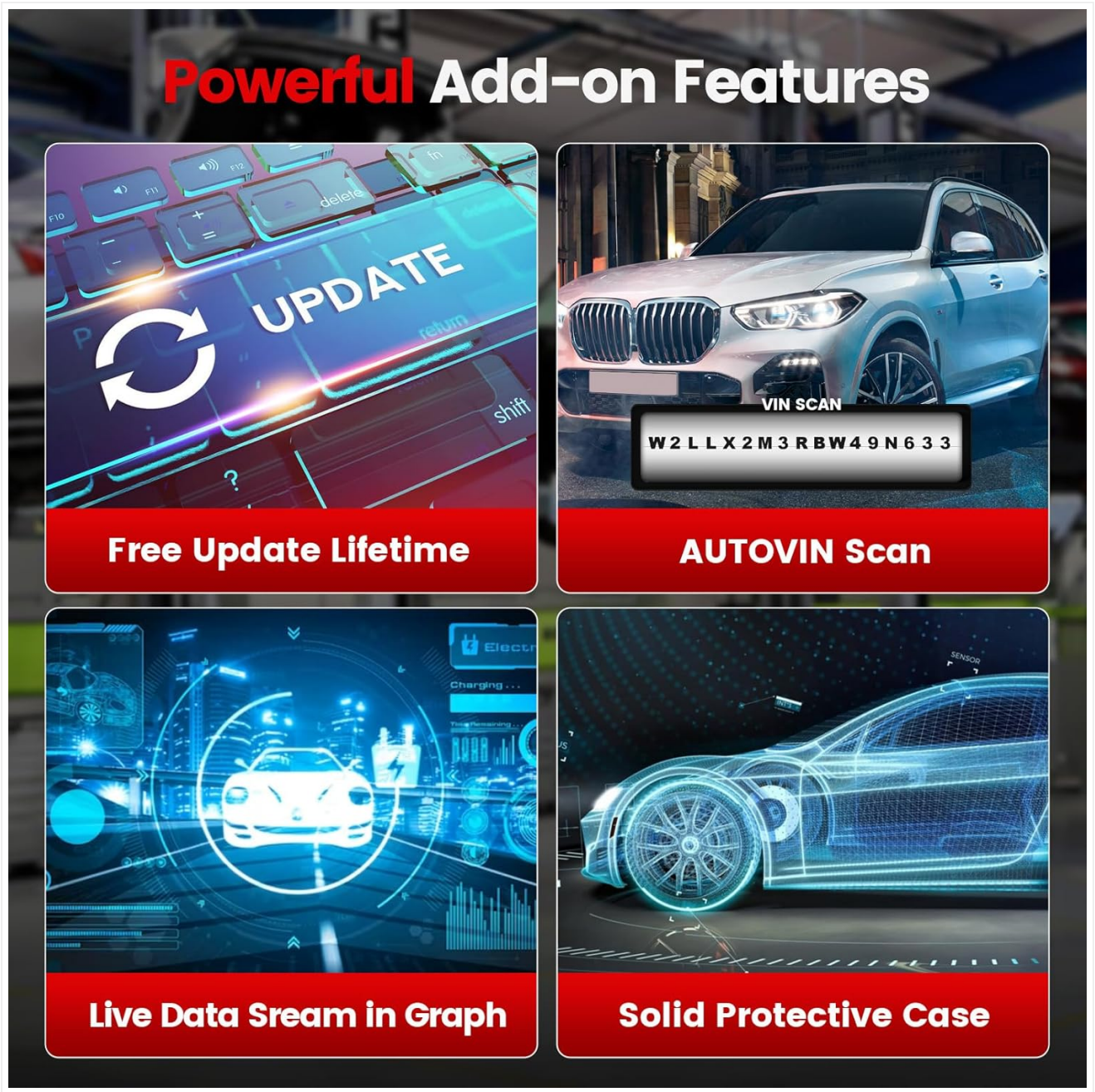


Image 2.1: The ThinkTool Mini displaying its update function, AutoVIN scan capability, live data stream graphing, and highlighting its protective case.

2.3 Connecting to Vehicle

1. Locate the vehicle's OBD2 port, typically under the dashboard on the driver's side.
2. Plug the Bluetooth VCI dongle into the vehicle's OBD2 port. Ensure it is securely connected.
3. On the ThinkTool Mini, the device will automatically establish a Bluetooth connection with the VCI dongle. A successful connection will be indicated on the device screen.

3. Operating Instructions

3.1 All System Diagnostics

The ThinkTool Mini can access and diagnose all available electronic control units (ECUs) in a vehicle. This includes engine, transmission, ABS, SRS, IMMO, and more.

1. From the main menu, select 'Diagnose'.
2. The device will attempt to automatically identify the vehicle via AutoVIN. If AutoVIN is not supported or fails, you can manually select the vehicle make, model, and year.
3. Once the vehicle is identified, select 'Health Report' or 'System Scan' to perform a comprehensive diagnostic scan.
4. Review the diagnostic trouble codes (DTCs) and their descriptions. You can clear codes after repairs are completed.

Image 3.1: An illustrative diagram highlighting the comprehensive OE-level diagnostic capabilities of the ThinkTool Mini, covering systems such as engine, ABS, airbags, transmission, and more.

3.2 28+ Reset Services

The device offers over 28 maintenance and reset services. These functions allow for specific component calibration, adaptation, or resetting after repairs or replacements.

- **Oil Reset:** Resets the oil service light after an oil change.
- **EPB Reset:** Resets the electronic parking brake system after brake pad replacement.
- **BMS Reset:** Registers a new battery to the vehicle's system.
- **IMMO Reset:** Performs key programming and immobilizer matching.
- **ABS Bleeding:** Bleeds the brake system after component replacement.
- **Injector Coding:** Codes new injector numbers to the ECU.
- **DPF Regeneration:** Initiates the diesel particulate filter regeneration process.
- **SAS Calibration:** Calibrates the steering angle sensor.
- **TPMS Reset:** Resets tire pressure monitoring system sensors.

Image 3.2: Visual representation of several key reset functions available on the ThinkTool Mini, such as Oil Reset, ABS Bleeding, TPMS Reset, and Immobilizer Reset, alongside a list of other supported services.

3.3 Live Data Stream

Monitor real-time vehicle sensor data in text or graph format. This is crucial for diagnosing intermittent issues and verifying repairs.

- Select 'Live Data' after a system scan.
- Choose the parameters you wish to monitor.
- Data can be displayed as a graph for easier analysis of trends and fluctuations.

Image 3.3: The ThinkTool Mini demonstrating its capability to display a 4-in-1 live data stream, allowing users to track multiple sensor parameters simultaneously in a graphical format.

3.4 Diagnostic Health Report

The device can automatically generate a comprehensive diagnostic report summarizing the vehicle's health status, including detected DTCs and system information. These reports can be downloaded, printed, or shared via email, Bluetooth, or QR code.

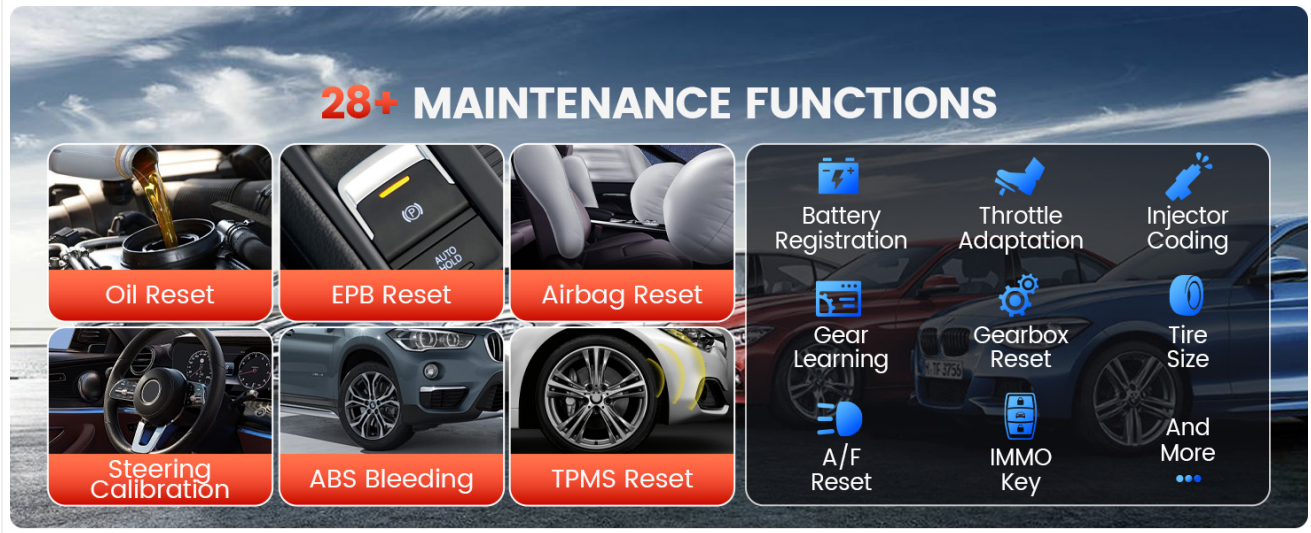


Image 3.4: A diagnostic health report being printed from a printer, illustrating the ThinkTool Mini's ability to generate and share detailed vehicle health summaries.

3.5 FCA AutoAuth Access

The ThinkTool Mini supports AutoAuth for FCA SGW (Security Gateway) access, allowing authorized diagnostics and functions on compatible 2018-2024 Chrysler, Dodge, Ram, Fiat, Alfa Romeo, and Jeep vehicles.

Image 3.5: The AutoAuth login interface displayed on the ThinkTool Mini, demonstrating its capability to access FCA Security Gateway for diagnostics on compatible vehicles.

4. Maintenance

4.1 Software Updates

The ThinkTool Mini offers lifetime free software updates. Regularly updating the device ensures access to the latest vehicle models, diagnostic functions, and bug fixes. Connect the device to Wi-Fi and navigate to the 'Update' section to check for and install available updates.

4.2 Battery Care

The device is equipped with a built-in rechargeable battery. To prolong battery life:

- Avoid fully discharging the battery frequently.
- Store the device in a cool, dry place when not in use.
- Charge the device regularly, even if not in active use, to maintain battery health.

4.3 Cleaning and Storage

Clean the device with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials. Store the device and its accessories in the provided carrying case to protect it from dust and physical damage.

5. Troubleshooting

5.1 Device Not Powering On

- Ensure the battery is sufficiently charged. Connect the device to a charger and try again.
- If the device still does not power on, contact customer support.

5.2 VCI Dongle Connection Issues

- Verify the VCI dongle is securely plugged into the vehicle's OBD2 port.
- Ensure the vehicle's ignition is on (engine off or running, depending on the function).
- Check Bluetooth settings on the ThinkTool Mini to ensure it is enabled and attempting to connect.

5.3 AutoVIN Not Working

- AutoVIN functionality may not be supported on all vehicle models or years.

- If AutoVIN fails, proceed with manual vehicle selection by entering the VIN or selecting the make, model, and year.

5.4 Specific Reset Service Not Available

- The availability of specific reset services can vary by vehicle make, model, and year.
- Ensure the device software is up to date.
- Consult the vehicle's service manual or contact customer support for compatibility information.

6. Specifications

*Image 6.1: An overview of the ThinkTool Mini's optimized hardware configuration, detailing its 6-inch HD touchscreen, 1280*800 resolution, Android 10 system, 2GB RAM, 32GB storage, 3150mAh battery, 4-core 2.0GHz CPU, wireless Bluetooth connectivity, and lifetime free updates.*

Feature	Detail
Model Number	TKT02

Feature	Detail
Operating System	Android 10.0
Screen Size	6 Inches HD Touchscreen
Screen Resolution	1280*800
Processor	4-core 2.0GHz CPU
Memory	2GB RAM, 32GB Storage
Battery	3150mAH Lithium Ion (included)
Connectivity	Bluetooth 4.0 VCI Dongle (33ft wireless range), Wi-Fi
Camera	8 Megapixel Rear Camera
Expandable Storage	MicroSD slot up to 256GB
Vehicle Coverage	126+ Brands, 10000+ Models (OBD2/OBD1/EOBD/JOBD&CAN protocols, up to 2025 models)
Item Weight	1.46 kg
Parcel Dimensions	27.9 x 19.4 x 10.7 cm
UPC	768297279683

6.1 Extensible Modules

The ThinkTool Mini supports connection with several optional modules (sold separately) to expand its functionality:

- THINKPRINTER
- THINKPRINTER Thermal Paper
- THINKWORKLIGHT
- THINKTOOL Video Scope
- THINKTOOL Battery Tester
- THINKTOOL Scope Box
- THINKTOOL Thermal Imager
- THINKMODULEDOCK
- THINKTPMS G1

Image 6.2: The rear panel of the ThinkTool Mini, displaying its model number (TKT02), serial number, and a list of supported extensible modules that can be connected to enhance its capabilities.

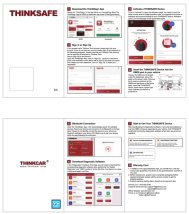
7. Support

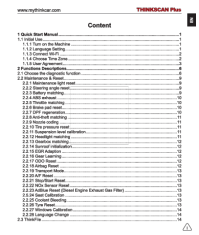
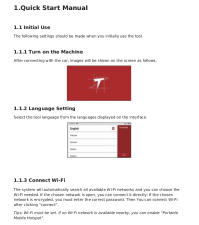
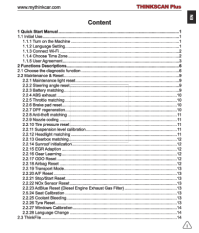
For technical assistance or inquiries, please use the following resources:

- **Built-in Online Technical Help:** Access support directly through the device's interface.
- **Email Support:** support@mythinkcar.com
- **Customer Service:** Available 7 days a week, 24 hours a day.

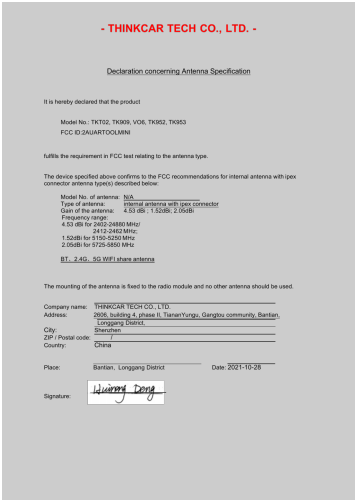
For warranty information, please refer to the official THINKCAR website or contact customer support.

Related Documents - TKT02

	ThinkSAFE Device Quick Start Guide A guide to downloading the ThinkDiag+ app, signing up or signing in, activating the ThinkSAFE device, connecting via Bluetooth, downloading diagnostic software, and understanding the warranty information.
	THINKCAR THINKTOOL Max User Manual: Features, Diagnostics, and Troubleshooting Comprehensive user manual for the THINKCAR THINKTOOL Max diagnostic tool, covering vehicle diagnostics, special functions, software updates, setup, troubleshooting, and FAQs. Learn about TPMS, ADAS, and more.

	[THINKSCAN Plus User Manual and Quick Start Guide] This document provides a comprehensive user manual and quick start guide for the THINKSCAN Plus diagnostic tool, covering initial setup, functions, maintenance resets, Q&A, and warranty information.
	[THINKSCAN 689 & 689BT Diagnostic Tool Quick Start Manual] Comprehensive quick start manual for THINKCAR THINKSCAN 689 and 689BT automotive diagnostic tools. Learn about product features, technical specifications, how to connect and use the device, perform full system diagnostics, maintenance resets, software upgrades, and access customer support. Includes troubleshooting Q&A and warranty information for these OBDII scanners.
	[THINKSCAN Plus Quick Start Manual - Vehicle Diagnostic Tool Guide] A concise guide to setting up and using the THINKSCAN Plus vehicle diagnostic tool, covering initial setup, Wi-Fi connection, user agreement, functions, maintenance resets, software updates, and troubleshooting FAQs.
	[THINKSCAN Plus User Manual and Guide] This document provides a comprehensive guide to the THINKSCAN Plus diagnostic tool, covering quick start, functions, Q&A, and warranty information. It details various maintenance and reset functions, diagnostic procedures, and system settings for automotive technicians.

Documents - thinkcar – TKT02



[pdf] Specifications Decleration of Conformity

JessicaMei 17 TKT02 AntSpec r2 THINKCAR TECH CO LTD TOOLMINI THINKTOOL mini ThinkTool Platinum S6 Lite THINKSCAN Max MUCAR VO6 Sensor Actuator 2AUARTOOLMINI toolmini

- THINKCAR TECH CO., LTD. - Declaration concerning Antenna Specification It is hereby declared that the product Model No.: **TKT02**, TK909, VO6, TK952, TK953 FCC ID:2AUARTOOLMINI fulfills the requirement in FCC test relating to the antenna type. The device specified above confirms to the FCC recomm...

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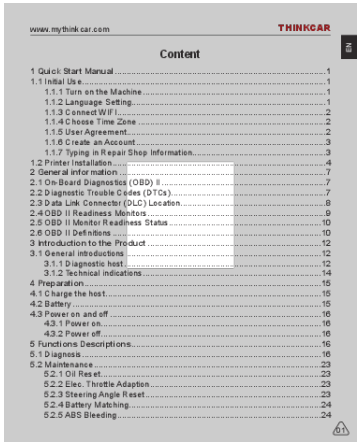
www.mythinkcar.com THINKCAR

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[pdf] User Manual

15 TKT02 UserMan US r3 THINKCAR TECH CO LTD TOOLMINI 2AUARTOOLMINI toolmini

www.mythinkcar.com THINKCAR EN Content 1 Quick Start Manual .....1 1.1 Initial Use.....1 1.1.1 Turn on the Machin...

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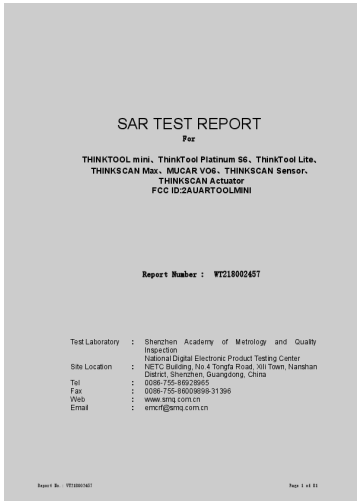
SAR TEST REPORT

For

THINKTOOL mini、ThinkTool Platinum S6、ThinkTool Lite、THINKSCAN Max、MUCAR VO6、THINKSCAN Sensor、THINKSCAN Actuator
FCC ID:2AUARTOOLMINI

Report Number : WT218002457

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection National Digital Electronic Product Testing Center
Site Location	:	NETC Building, No.4 Tongfa Road, XiliTown, Nanshan District, Shenzhen, Guangdong, China
Tel	:	0086-755-86923565
Fax	:	0086-755-86009899-31396
Web	:	www.smq.com.cn
Email	:	emcf@smq.com.cn

[pdf] Decleration of Conformity Test Report

EMC TEST REPORT 18 TKT02 RFExp r3 THINKCAR TECH CO LTD TOOLMINI THINKTOOL mini ThinkTool Platinum S6 Lite THINKSCAN Max MUCAR VO6 Sensor Actuator 2AUARTOOLMINI toolmini

SAR TEST REPORT For THINKTOOL miniThinkTool Platinum S6ThinkTool Lite THINKSCAN MaxMUCAR VO6THINKSCA ... miniThinkTool Platinum S6ThinkTool LiteTHINKSCAN : MaxMUCAR VO6THINKSCAN SensorTHINKSCAN Actuator : **TKT02**TK909VO6TK952TK953 Brand : THINKCARMUCAR FCC ID : 2AUARTOOLMINI Test Standards: IEEE Std ...

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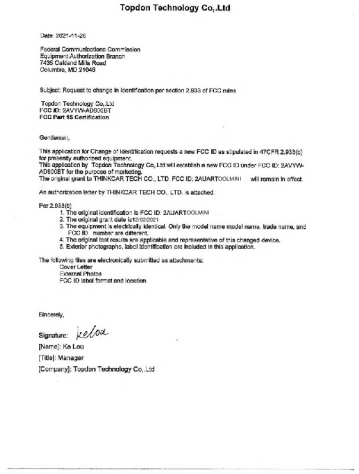
Topdon Technology Co.,Ltd

Date: 2021-11-26

Federal Communications Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Request to change in identification per section 2.933 of FCC rules

Topdon Technology Co.,Ltd
FCC ID: 2AVYW-AD800BT
FCC Part 15 Certification

Gentlemen:

This application for Change of Identification requests a new FCC ID as stipulated in 47CFR2.933(b) for presently authorized equipment.
This application by Topdon Technology Co.,Ltd will establish a new FCC ID under FCC ID: 2AVYW-AD800BT for the purpose of marketing.
The grantee shall be THINKCAR TECH CO., LTD. FCC ID: 2AUARTOOLMINI will remain in effect.

An authorization letter by THINKCAR TECH CO., LTD. is attached.

Per 2.933(b)
1. The original identification is: FCC ID: 2AUARTOOLMINI
2. The original grant date is: 12/02/2021
3. The equipment is electrically identical. Only the model name model name, trade name, and FCC ID number are different.
4. The original test results are applicable and representative of this changed device.
5. Exterior photographs, label identification are included in this application.

The following files are electronically submitted as attachments:
Cover Letter
External Photos
FCC ID label format and location

Sincerely,

Signature: kelon
[Name]: Ke Lao
[Title]: Manager
[Company]: Topdon Technology Co.,Ltd

[pdf]

27 TKT02 Multilst US r1 Topdon Technology Co Ltd AD800BT diagnostic equipment of vehicle 2AVYW 2AVYWAD800BT ad800bt

OOLMINI 12/02/2021 OOLMINI THINKCAR TECH CO., LTD. Date: 11/26/2021 Federal Communications Commission Authorization and Evaluation Division Equipment Authorization Branch 7435 Oakland Mills Road Columbia, MD 21046 RE: Change of Identification Authorization, FCC ID: 2AVYW-AD800BT To whom it may c...

lang:en score:17 filesize: 5.91 M page_count: 2 document date: 2021-12-22

[pdf] Product Photos

win7 08 TKT02 ExtPho THINKCAR TECH CO LTD TOOLMINI 2AUARTOOLMINI toolmini

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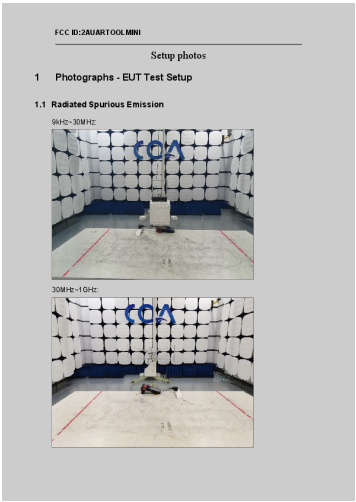

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Shenzhen Huaxia Testing Technology Co., Ltd

Test Report

[pdf] Decleration of Conformity Test Report

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Shenzhen Huaxia Testing Technology Co., Ltd.

Test Report

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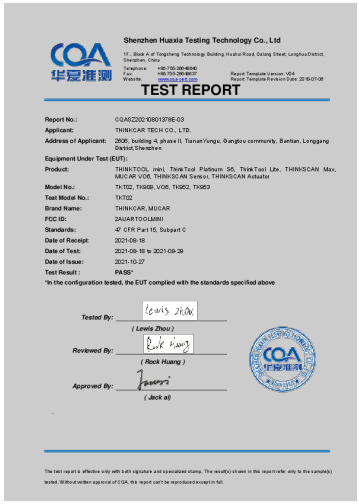

Shenzhen Huaxia Testing Technology Co., Ltd

TEST REPORT

Report No.: CQASZ20210801378E-03
Applicant: THINKCAR TECH CO., LTD.
Address of Applicant: 2806, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District,Shenzhen
Equipment Under Test (EUT):
Product: THINKTOOL mini, ThinkTool Platinum S6, ThinkTool Lite, THINKSCAN Max, MUCAR VO6, THINKSCAN Sensor, THINKSCAN Actuator
Model No.: TKT02, TKSB, VO6, TKS62, TKS63
Test Model No.: TKT02
Brand Name: THINKCAR, MUCAR
FCC ID: 2AUARTOOLMINI
Standards: 47 CFR Part 15, Subpart C
Date of Receipt: 2021-08-18
Date of Test: 2021-08-18 to 2021-08-29
Date of Issue: 2021-10-27
Test Result : PASS*
*In the configuration tested, the EUT complied with the standards specified above

Tested By: (Lewis Zhou)
Reviewed By: (Rock Huang)
Approved By: (Jack ai)

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

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CQASZ20210801378E 03 FCC 15 247 2 4G WIFI doc Aaron 14 TKT02 TestRpt DTS WiFi r3 THINKCAR TECH CO LTD TOOLMINI THINKTOOL mini ThinkTool Platinum S6 Lite THINKSCAN Max MUCAR VO6 Sensor Actuator 2AUARTOOLMINI toolmini

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lang:en score:9 filesize: 4.06 M page_count: 83 document date: 2021-11-30

Shenzhen Huaxia Testing Technology Co., Ltd

Test Report

Report No.: CQASZ20210801378E-01
Applicant: THINKCAR TECH CO., LTD.
Address of Applicant: 2806, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District,Shenzhen
Equipment Under Test (EUT):
Product name: THINKTOOL mini, ThinkTool Platinum S6, ThinkTool Lite, THINKSCAN Max, MUCAR VO6, THINKSCAN Sensor, THINKSCAN Actuator
Model No.: TKT02, TKSB, VO6, TKS62, TKS63
Test Model No.: TKT02
Brand Name: THINKCAR, MUCAR
FCC ID: 2AUARTOOLMINI
Standards: 47 CFR Part 15, Subpart C
Date of Receipt: 2021-08-19
Date of Test: 2021-08-19 to 2021-08-29
Date of Issue: 2021-10-27
Test Result : PASS*
*In the configuration tested, the EUT complied with the standards specified above

Tested By: (Lewis Zhou)
Reviewed By: (Rock Huang)
Approved By: (Jack ai)

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CQASZ20210801378E 01 FCC12 247 BLE doc Aaron 14 TKT02 TestRpt DTS r3 THINKCAR TECH CO LTD TOOLMINI THINKTOOL mini ThinkTool Platinum S6 Lite THINKSCAN Max MUCAR VO6 Sensor Actuator 2AUARTOOLMINI toolmini

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